

MILITARY SPECIFICATION

MICROCIRCUITS, LINEAR, DARLINGTON TRANSISTOR ARRAY,
SEVEN AND EIGHT GATE, MONOLITHIC SILICON

Reactivated after July 12, 2004 and may be used for either new or existing design acquisition.
--

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product herein shall consist of this specification sheet and MIL-PRF-38535.

1. SCOPE

1.1 Scope. This specification covers the detail requirements for monolithic silicon, seven and eight gate, Darlington transistor array microcircuits. Two product assurance classes and a choice of case outlines and lead finishes are provided and are reflected in the complete part number. For this product, the requirements of MIL-M-38510 have been superseded by MIL-PRF-38535, (see 6.3)

1.2 Part or Identifying Number (PIN). The PIN is in accordance with MIL-PRF-38535, and as specified herein.

1.2 Part number. The part number should be in accordance with MIL-PRF-38535, and as specified herein.

1.2.1 Device types. The device types are as follows:

<u>Device types</u>	<u>Circuit</u>
01, 02, 03, 04, 05	Darlington transistor array, seven gate
06, 07, 08, 09, 10	Darlington transistor array, eight gate

1.2.2 Device class. The device class is the product assurance level as defined in MIL-PRF-38535.

1.2.3 Case outline. The case outlines are as designated in MIL-STD-1835 and as follows:

<u>Outline letter</u>	<u>Descriptive designator</u>	<u>Terminals</u>	<u>Package style</u>
E	GDIP1-T16 or CDIP2-T16	16	Dual in line
V	GDIP1-T18 or CDIP2-T18	18	Dual in line

Comments, suggestions, or questions on this document should be addressed to: Commander, Defense Supply Center Columbus, ATTN: DSCC-VAS, 3990 East Broad St., Columbus, OH 43216-5000, or email linear@dsccl.dla.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at www.dodssp.daps.mil .

1.3 Absolute maximum ratings.

Output voltage (V_{CE}).....	50 V dc
Input voltage (V_{IN})	
Device types 02, 03, 04, 07, 08, 09	30 V dc
Device types 05, 10	15 V dc
Peak collector current (I_C)	500 mA
Peak input current (I_{IN})	25 mA
Power dissipation (P_D)	1.0 W <u>1/</u>
Storage temperature range	-65°C to +150°C
Junction temperature (T_J)	+175°C

1.4 Recommended operating conditions.

Ambient operating temperature range (T_A)	-55°C to +125°C
---	-----------------

1.5 Power and thermal characteristics.

Package	Case outline	Maximum allowable power dissipation	Maximum θ_{JC}	Maximum θ_{JA}
16 lead dual in line	E	277 mW at $T_A = +125^\circ\text{C}$	20°C/W	90°C/W
18 lead dual in line	V	330 mW at $T_A = +125^\circ\text{C}$	20°C/W	75°C/W

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3, 4, or 5 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents cited in sections 3, 4, or 5 of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

DEPARTMENT OF DEFENSE SPECIFICATIONS

MIL-PRF-38535 - Integrated Circuits (Microcircuits) Manufacturing, General Specification for.

DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-883 - Test Method Standard for Microelectronics.
MIL-STD-1835 - Interface Standard Electronic Component Case Outlines.

(Copies of these documents are available online at <http://assist.daps.dla.mil/quicksearch/> or www.dodssp.daps.mil or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein the text of this document shall take precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

1/ Absolute maximum rating for power dissipation is for one Darlington pair only.

3. REQUIREMENTS

3.1 Qualification. Microcircuits furnished under this specification shall be products that are manufactured by a manufacturer authorized by the qualifying activity for listing on the applicable qualified manufacturers list before contract award (see 4.3 and 6.4).

3.2 Item requirements. The individual item requirements shall be in accordance with MIL-PRF-38535 and as specified herein or as modified in the device manufacturer's Quality Management (QM) plan. The modification in the QM plan shall not affect the form, fit, or function as described herein.

3.3 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535 and herein.

3.3.1 Terminal connections and logic diagram. The terminal connections and logic diagram shall be as specified on figure 1.

3.3.2 Truth table and logic equations. The truth table and logic equations shall be as specified on figure 2.

3.3.3 Schematic circuits. The schematic circuits shall be maintained by the manufacturer and made available to the qualifying activity and the preparing activity upon request.

3.3.4 Case outlines. The case outlines shall be as specified in 1.2.3.

3.3.5 Package and sealing material. Package and sealing material shall be in accordance with MIL-PRF-38535.

3.4 Lead material and finish. The lead material and finish shall be in accordance with MIL-PRF-38535 (see 6.6).

3.5 Electrical performance characteristics. The electrical performance characteristics are as specified in table I, and apply over the full recommended ambient operating temperature range, unless otherwise specified.

3.6 Electrical test requirements. Electrical test requirements for each device class shall be the subgroups specified in table II. The electrical tests for each subgroup are described in table III.

3.7 Marking. Marking shall be in accordance with MIL-PRF-38535.

3.7.1 Serialization. All class S devices shall be serialized in accordance with MIL-PRF-38535.

3.7.2 Correctness of indexing and markings. All devices shall be subjected to the final electrical tests specified in table II after part marking to verify that they are correctly indexed and identified by part number. Optionally, an approved electrical test may be devised especially for this requirement.

3.8 Microcircuit group assignment. The devices covered by this specification shall be in microcircuit group number 53 (see MIL-PRF-38535, appendix A).

TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions -55°C ≤ T _A ≤ +125°C unless otherwise specified	Device type	Limits		Units
				Min	Max	
Output leakage current	I _{CEX}	V _{CE} = 50 V	01, 06		10.0	μA
Collector emitter saturation voltage	V _{CE(sat)}	I _C = 350 mA, I _B = 850 μA, T _A = -55°C	01, 06		1.8	V
		I _C = 200 mA, I _B = 550 μA, T _A = -55°C			1.5	
		I _C = 100 mA, I _B = 350 μA, T _A = -55°C			1.3	
		I _C = 350 mA, I _B = 500 μA, T _A = +25°C			1.6	
		I _C = 200 mA, I _B = 350 μA, T _A = +25°C			1.3	
		I _C = 100 mA, I _B = 250 μA, T _A = +25°C			1.1	
		I _C = 350 mA, I _B = 500 μA, T _A = +125°C			1.8	
		I _C = 200 mA, I _B = 350 μA, T _A = +125°C			1.5	
		I _C = 100 mA, I _B = 250 μA, T _A = +125°C			1.3	
Input current	I _{IN(off)}	I _B ≤ 25 μA	01, 06		500	μA
DC forward current transfer ratio	h _{FE}	V _{CE} = 2 V, I _C = 350 mA, T _A = -55°C	01, 06	500		
		V _{CE} = 2 V, I _C = 350 mA, +25°C ≤ T _A ≤ +125°C		1000		
Clamp diode leakage current	I _R	V _R = 50 V	01, 06		10.0	μA
Clamp diode forward voltage	V _F	I _F = 350 mA	01, 06		2.0	V
Turn on delay	t _{PLH}	T _A = +25°C, see figure 4	01, 06		750	ns
Turn off delay	t _{PHL}	T _A = +25°C, see figure 4	01, 06		300	ns

TABLE I. Electrical performance characteristics – Continued.

Test	Symbol	Conditions -55°C ≤ T _A ≤ +125°C unless otherwise specified	Device type	Limits		Units
				Min	Max	
Output leakage current	I _{CEX}	V _{CE} = 50 V, V _{IN} = 6 V	02, 07		10.0	μA
Collector emitter saturation voltage	V _{CE(sat)}	I _C = 350 mA, I _B = 850 μA, T _A = -55°C	02, 07		1.8	V
		I _C = 200 mA, I _B = 550 μA, T _A = -55°C			1.5	
		I _C = 100 mA, I _B = 350 μA, T _A = -55°C			1.3	
		I _C = 350 mA, I _B = 500 μA, T _A = +25°C			1.6	
		I _C = 200 mA, I _B = 350 μA, T _A = +25°C			1.3	
		I _C = 100 mA, I _B = 250 μA, T _A = +25°C			1.1	
		I _C = 350 mA, I _B = 500 μA, T _A = +125°C			1.8	
		I _C = 200 mA, I _B = 350 μA, T _A = +125°C			1.5	
		I _C = 100 mA, I _B = 250 μA, T _A = +125°C			1.3	
Input current	I _{IN(on)}	V _{IN} = 17 V	02, 07	575	1300	μA
Input current	I _{IN(off)}	I _B ≤ 25 μA	02, 07		500	μA
Input voltage	V _{IN(on)}	V _{CE} ≤ 2 V, I _C = 300 mA, T _A = -55°C	02, 07	18		V
		V _{CE} ≤ 2 V, I _C = 300 mA, +25°C ≤ T _A ≤ +125°C		13		
DC forward current transfer ratio	h _{FE}	V _{CE} = 2 V, I _C = 350 mA, T _A = -55°C	02, 07	500		
		V _{CE} = 2 V, I _C = 350 mA, +25°C ≤ T _A ≤ +125°C		1000		
Clamp diode leakage current	I _R	V _R = 50 V	02, 07		10.0	μA
Clamp diode forward voltage	V _F	I _F = 350 mA	02, 07		2.0	V
Turn on delay	t _{PLH}	T _A = +25°C, see figure 4	02, 07		750	ns
Turn off delay	t _{PHL}	T _A = +25°C, see figure 4	02, 07		300	ns

TABLE I. Electrical performance characteristics – Continued.

Test	Symbol	Conditions -55°C ≤ T _A ≤ +125°C unless otherwise specified	Device type	Limits		Units
				Min	Max	
Output leakage current	I _{CEX}	V _{CE} = 50 V	03, 08		10.0	μA
Collector emitter saturation voltage	V _{CE(sat)}	I _C = 350 mA, I _B = 850 μA, T _A = -55°C	03, 08		1.8	V
		I _C = 200 mA, I _B = 550 μA, T _A = -55°C			1.5	
		I _C = 100 mA, I _B = 350 μA, T _A = -55°C			1.3	
		I _C = 350 mA, I _B = 500 μA, T _A = +25°C			1.6	
		I _C = 200 mA, I _B = 350 μA, T _A = +25°C			1.3	
		I _C = 100 mA, I _B = 250 μA, T _A = +25°C			1.1	
		I _C = 350 mA, I _B = 500 μA, T _A = +125°C			1.8	
		I _C = 200 mA, I _B = 350 μA, T _A = +125°C			1.5	
		I _C = 100 mA, I _B = 250 μA, T _A = +125°C			1.3	
Input current	I _{IN(on)}	V _{IN} = 3.85 V	03, 07	650	1350	μA
Input current	I _{IN(off)}	I _B ≤ 25 μA	03, 08		500	μA
Input voltage	V _{IN(on)}	V _{CE} ≤ 2 V, I _C = 200 mA, T _A = -55°C	03, 08	2.6		V
		V _{CE} ≤ 2 V, I _C = 250 mA, T _A = -55°C		2.8		
		V _{CE} ≤ 2 V, I _C = 300 mA, T _A = -55°C		3.0		
		V _{CE} ≤ 2 V, I _C = 200 mA, +25°C ≤ T _A ≤ +125°C		2.0		
		V _{CE} ≤ 2 V, I _C = 250 mA, +25°C ≤ T _A ≤ +125°C		2.2		
		V _{CE} ≤ 2 V, I _C = 300 mA, +25°C ≤ T _A ≤ +125°C		2.4		

TABLE I. Electrical performance characteristics – Continued.

Test	Symbol	Conditions -55°C ≤ T _A ≤ +125°C unless otherwise specified	Device type	Limits		Units
				Min	Max	
DC forward current transfer ratio	h _{FE}	V _{CE} = 2 V, I _C = 350 mA, T _A = -55°C	03, 08	500		
		V _{CE} = 2 V, I _C = 350 mA, +25°C ≤ T _A ≤ +125°C		1000		
Clamp diode leakage current	I _R	V _R = 50 V	03, 08		10.0	μA
Clamp diode forward voltage	V _F	I _F = 350 mA	03, 08		2.0	V
Turn on delay	t _{PLH}	T _A = +25°C, see figure 4	03, 08		750	ns
Turn off delay	t _{PHL}	T _A = +25°C, see figure 4	03, 08		300	ns

TABLE I. Electrical performance characteristics – Continued.

Test	Symbol	Conditions -55°C ≤ T _A ≤ +125°C unless otherwise specified	Device type	Limits		Units
				Min	Max	
Output leakage current	I _{CEX}	V _{CE} = 50 V	04, 09		10.0	μA
Collector emitter saturation voltage	V _{CE(sat)}	I _C = 350 mA, I _B = 850 μA, T _A = -55°C	04, 09		1.8	V
		I _C = 200 mA, I _B = 550 μA, T _A = -55°C			1.5	
		I _C = 100 mA, I _B = 350 μA, T _A = -55°C			1.3	
		I _C = 350 mA, I _B = 500 μA, T _A = +25°C			1.6	
		I _C = 200 mA, I _B = 350 μA, T _A = +25°C			1.3	
		I _C = 100 mA, I _B = 250 μA, T _A = +25°C			1.1	
		I _C = 350 mA, I _B = 500 μA, T _A = +125°C			1.8	
		I _C = 200 mA, I _B = 350 μA, T _A = +125°C			1.5	
		I _C = 100 mA, I _B = 250 μA, T _A = +125°C			1.3	
Input current	I _{IN(on)}	V _{IN} = 5 V	04, 09	250	500	μA
		V _{IN} = 12 V		750	1450	
Input current	I _{IN(off)}	I _B ≤ 25 μA	04, 09		500	μA
Input voltage	V _{IN(on)}	V _{CE} ≤ 2 V, I _C = 125 mA, T _A = -55°C	04, 09	6.0		V
		V _{CE} ≤ 2 V, I _C = 200 mA, T _A = -55°C		8.0		
		V _{CE} ≤ 2 V, I _C = 275 mA, T _A = -55°C		10.0		
		V _{CE} ≤ 2 V, I _C = 350 mA, T _A = -55°C		12.0		
		V _{CE} ≤ 2 V, I _C = 125 mA, +25°C ≤ T _A ≤ +125°C		5.0		
		V _{CE} ≤ 2 V, I _C = 200 mA, +25°C ≤ T _A ≤ +125°C		6.0		
		V _{CE} ≤ 2 V, I _C = 275 mA, +25°C ≤ T _A ≤ +125°C		7.0		
		V _{CE} ≤ 2 V, I _C = 350 mA, +25°C ≤ T _A ≤ +125°C		8.0		

TABLE I. Electrical performance characteristics – Continued.

Test	Symbol	Conditions -55°C ≤ T _A ≤ +125°C unless otherwise specified	Device type	Limits		Units
				Min	Max	
DC forward current transfer ratio	h _{FE}	V _{CE} = 2 V, I _C = 350 mA, T _A = -55°C	04, 09	500		
		V _{CE} = 2 V, I _C = 350 mA, +25°C ≤ T _A ≤ +125°C		1000		
Clamp diode leakage current	I _R	V _R = 50 V	04, 09		10.0	μA
Clamp diode forward voltage	V _F	I _F = 350 mA	04, 09		2.0	V
Turn on delay	t _{PLH}	T _A = +25°C, see figure 4	04, 09		750	ns
Turn off delay	t _{PHL}	T _A = +25°C, see figure 4	04, 09		300	ns

TABLE I. Electrical performance characteristics – Continued.

Test	Symbol	Conditions -55°C ≤ T _A ≤ +125°C unless otherwise specified	Device type	Limits		Units
				Min	Max	
Output leakage current	I _{CEX}	V _{CE} = 50 V	05, 10		10.0	μA
Collector emitter saturation voltage	V _{CE(sat)}	I _C = 350 mA, I _B = 850 μA, T _A = -55°C	05, 10		1.8	V
		I _C = 200 mA, I _B = 550 μA, T _A = -55°C			1.5	
		I _C = 100 mA, I _B = 350 μA, T _A = -55°C			1.3	
		I _C = 350 mA, I _B = 500 μA, T _A = +25°C			1.6	
		I _C = 200 mA, I _B = 350 μA, T _A = +25°C			1.3	
		I _C = 100 mA, I _B = 250 μA, T _A = +25°C			1.1	
		I _C = 350 mA, I _B = 500 μA, T _A = +125°C			1.8	
		I _C = 200 mA, I _B = 350 μA, T _A = +125°C			1.5	
		I _C = 100 mA, I _B = 250 μA, T _A = +125°C			1.3	
Input current	I _{IN(on)}	V _{IN} = 3 V	05, 10	1180	2400	μA
Input current	I _{IN(off)}	I _B ≤ 25 μA	05, 10		500	μA
Input voltage	V _{IN(on)}	V _{CE} ≤ 2 V, I _C = 350 mA, T _A = -55°C	05, 10	3.0		V
		V _{CE} ≤ 2 V, I _C = 350 mA, +25°C ≤ T _A ≤ +125°C		2.4		
DC forward current transfer ratio	h _{FE}	V _{CE} = 2 V, I _C = 350 mA, T _A = -55°C	05, 10	500		
		V _{CE} = 2 V, I _C = 350 mA, +25°C ≤ T _A ≤ +125°C		1000		
Clamp diode leakage current	I _R	V _R = 50 V	05, 10		10.0	μA
Clamp diode forward voltage	V _F	I _F = 350 mA	05, 10		2.0	V
Turn on delay	t _{PLH}	T _A = +25°C, see figure 4	05, 10		750	ns
Turn off delay	t _{PHL}	T _A = +25°C, see figure 4	02, 10		300	ns

TABLE II. Electrical test requirements.

MIL-PRF-38535 test requirements	Subgroups (see table III)	
	Class S devices	Class B devices
Interim electrical parameters	1	1
Final electrical test parameters	1*, 2, 3, 9	1*, 2, 3, 9
Group A test requirements	1, 2, 3, 9	1, 2, 3, 9
Group B electrical test parameters when using the method 5005 QCI option	1, 2, 3, and table IV delta limits	N/A
Group C end-point electrical parameters	1, 2, 3, and table IV delta limits	1 and table IV delta limits
Group D end-point electrical parameters	1, 2, 3	1, 2, 3

*PDA applies to subgroup 1.

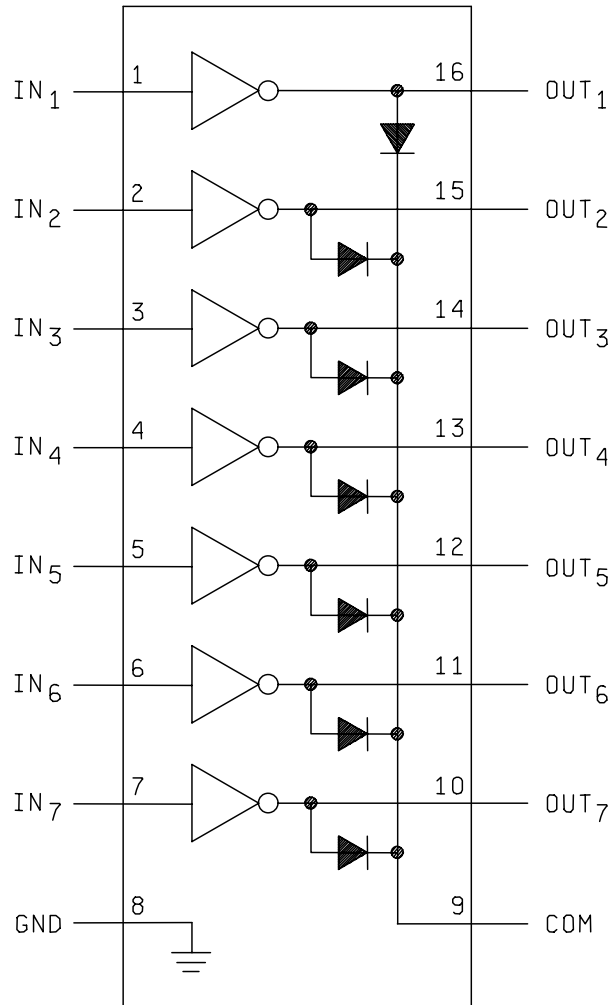
4. VERIFICATION.

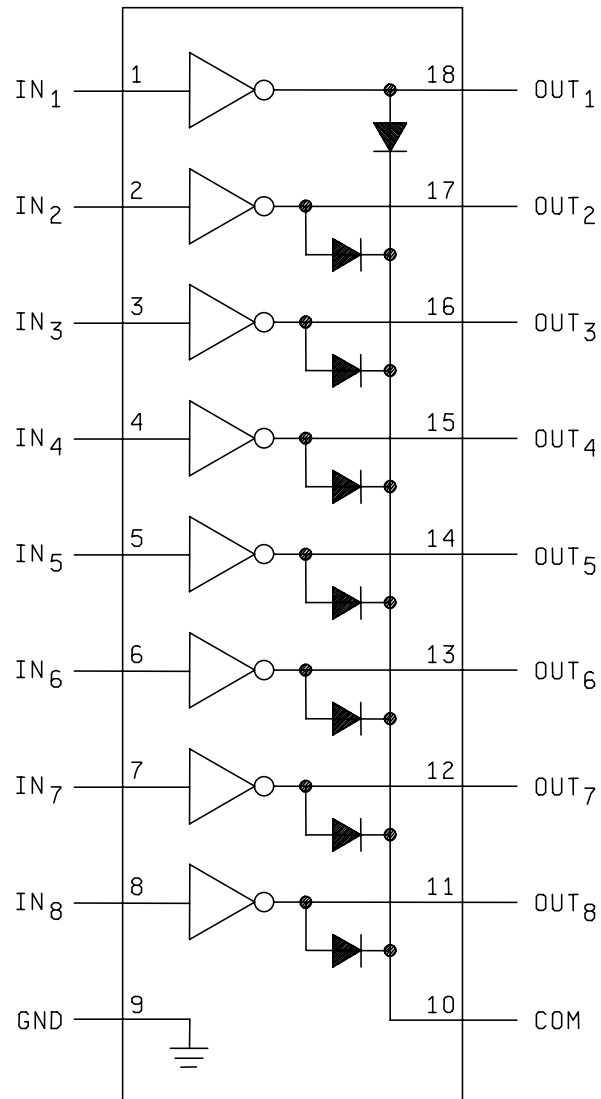
4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-PRF-38535 or as modified in the device manufacturer's Quality Management (QM) plan. The modification in the QM plan shall not effect the form, fit, or function as described herein.

4.2 Screening. Screening shall be in accordance with MIL-PRF-38535, and shall be conducted on all devices prior to qualification and quality conformance inspection. The following additional criteria shall apply:

- a. The burn-in test duration, test condition, and test temperature, or approved alternatives shall be as specified in the device manufacturer's QM plan in accordance with MIL-PRF-38535. The burn-in test circuit shall be maintained under document control by the device manufacturer's Technology Review Board (TRB) in accordance with MIL-PRF-38535 and shall be made available to the acquiring or preparing activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1015 of MIL-STD-883.
- b. Interim and final electrical test parameters shall be as specified in table II, except interim electrical parameters test prior to burn-in is optional at the discretion of the manufacturer.
- c. Additional screening for space level product shall be as specified in MIL-PRF-38535.

4.3 Qualification inspection. Qualification inspection shall be in accordance with MIL-PRF-38535.

DEVICE TYPES 01,02,03,04 AND 05Figure 1. Terminal connections and logic diagram.

DEVICE TYPES 06,07,08,09 AND 10Figure 1. Terminal connections and logic diagram – continued.

All device types

Input A	Output Y
0	1
1	0

0 = Logic low level.

1 = Logic high level.

$$Y = \bar{A}.$$

FIGURE 2. Truth table and logic equation.

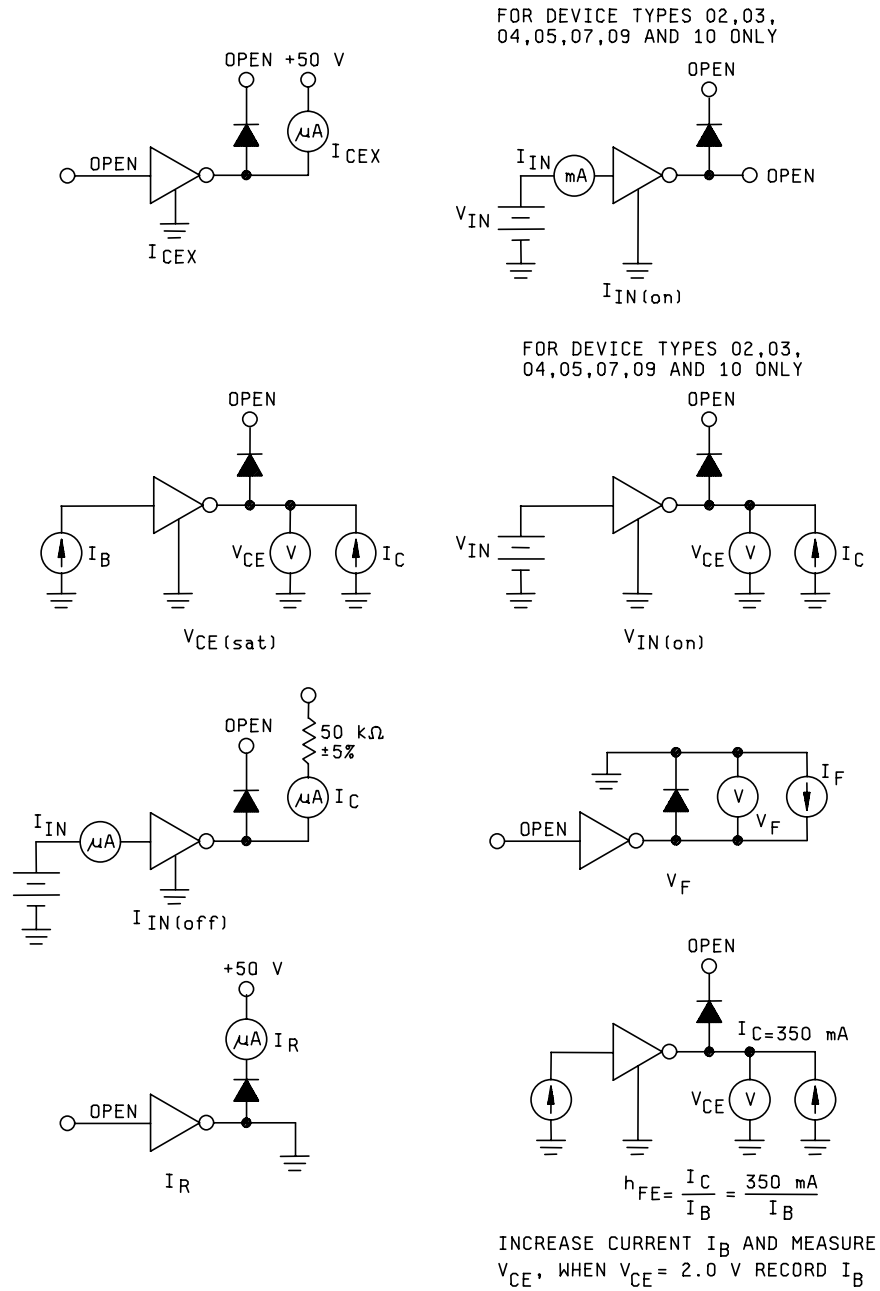
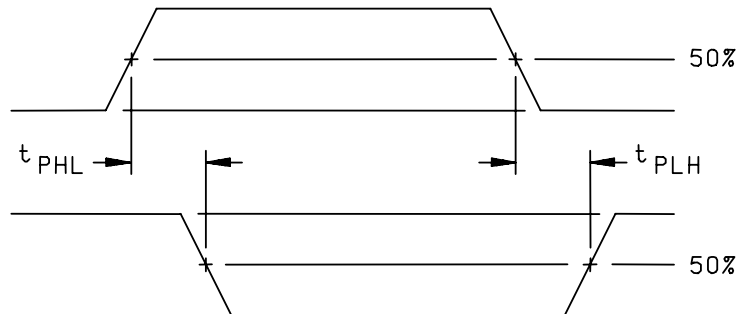
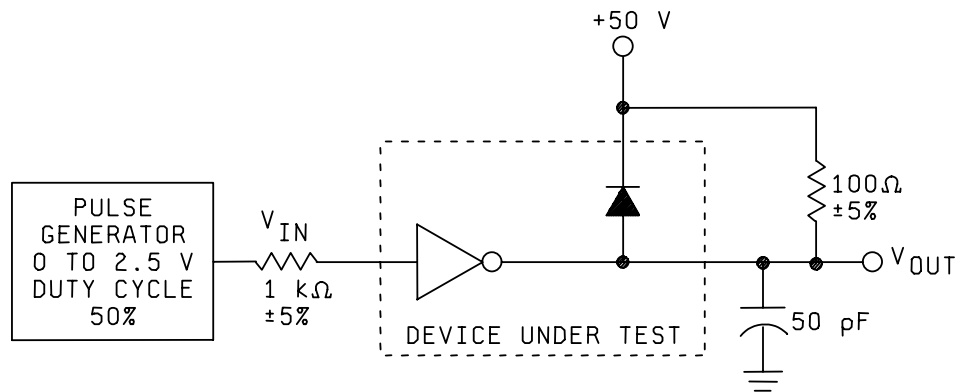


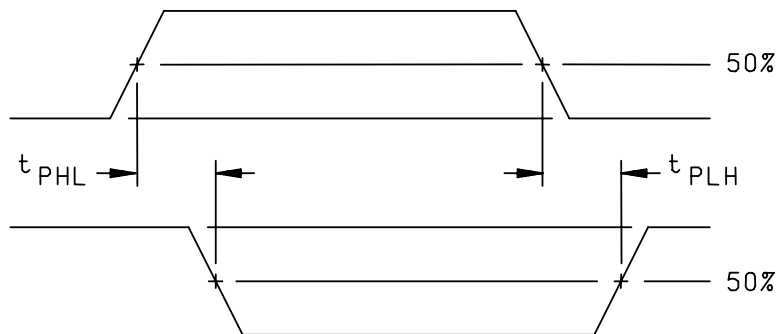
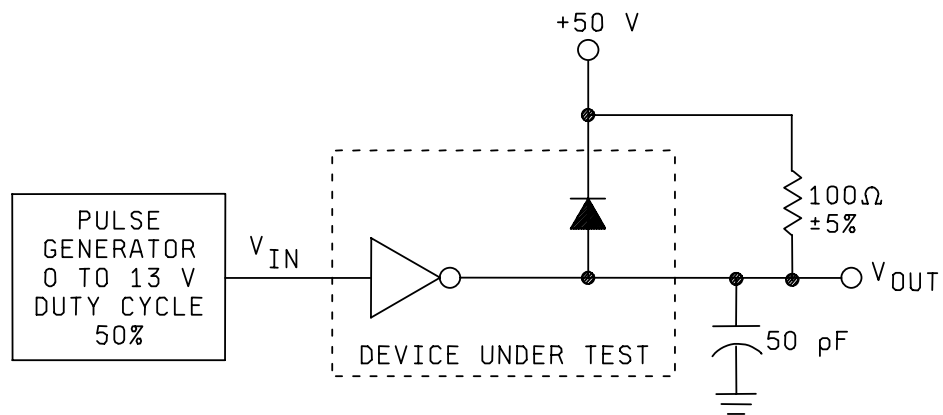
Figure 3. Test circuit for static tests .

DEVICE TYPES 01 AND 06

NOTES:

1. $f = 10\text{ KHz}$.
2. Duty cycle = 50 percent.
3. External $1\text{ k}\Omega$ resistor.

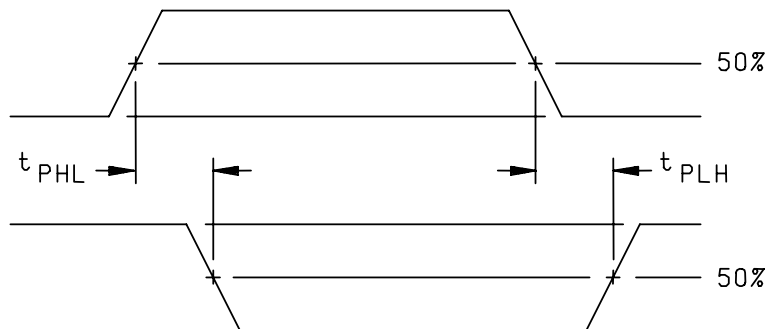
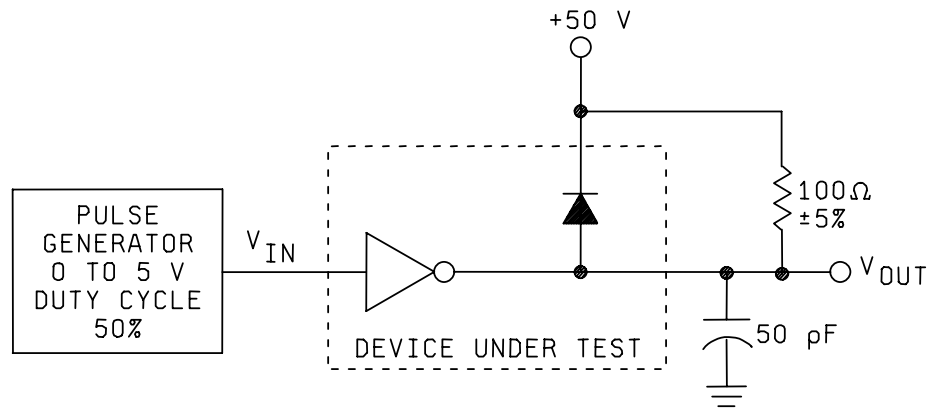
FIGURE 4. Switching time test circuits and waveforms.

DEVICE TYPES 02 AND 07

NOTES:

1. $f = 10$ KHz.
2. Duty cycle = 50 percent.

FIGURE 4. Switching time test circuits and waveforms – Continued.

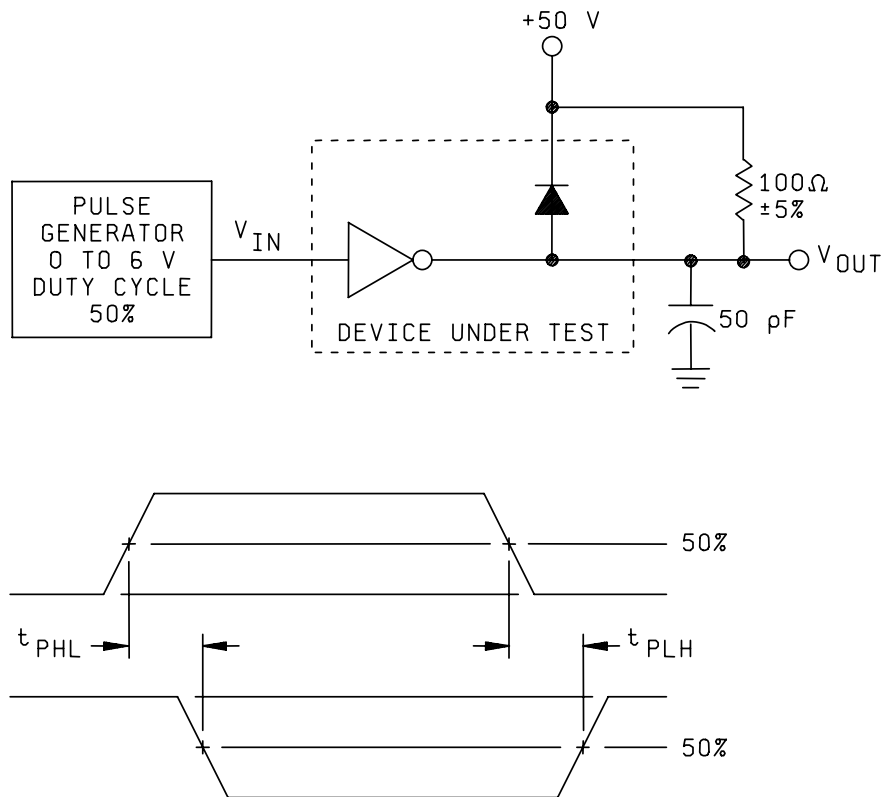
DEVICE TYPES 03 AND 08

NOTES:

1. $f = 10$ KHz.
2. Duty cycle = 50 percent.

FIGURE 4. Switching time test circuits and waveforms – Continued.

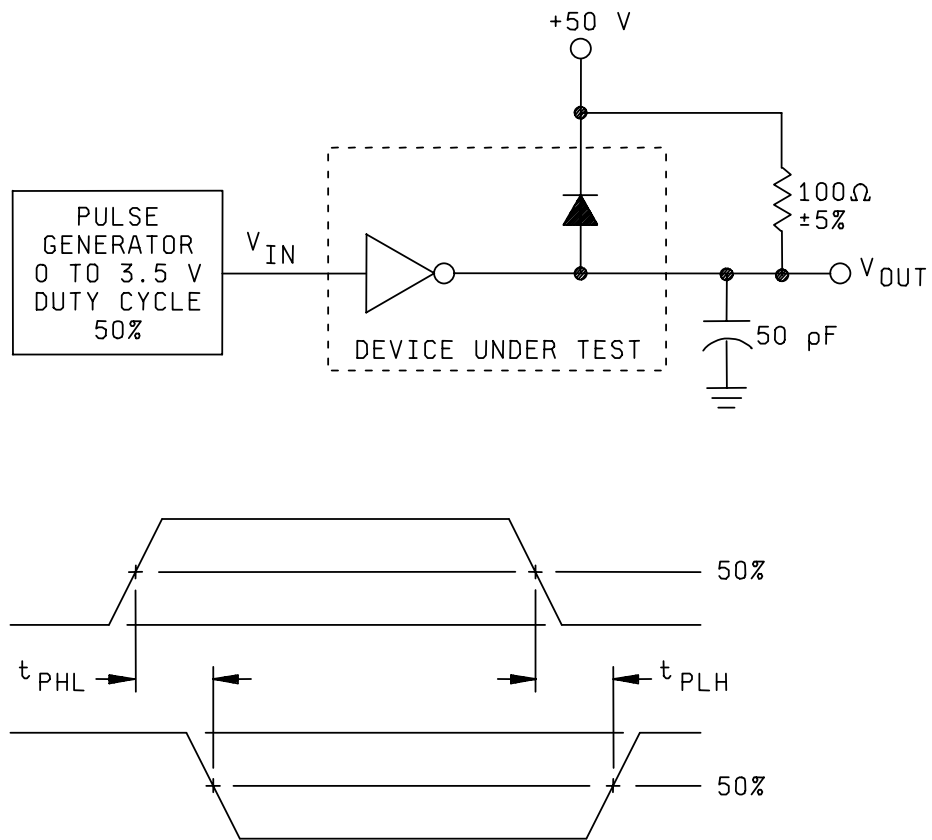
DEVICE TYPES 04 AND 09



NOTES:

1. $f = 10\text{ KHz}$.
2. Duty cycle = 50 percent.

FIGURE 4. Switching time test circuits and waveforms – Continued.

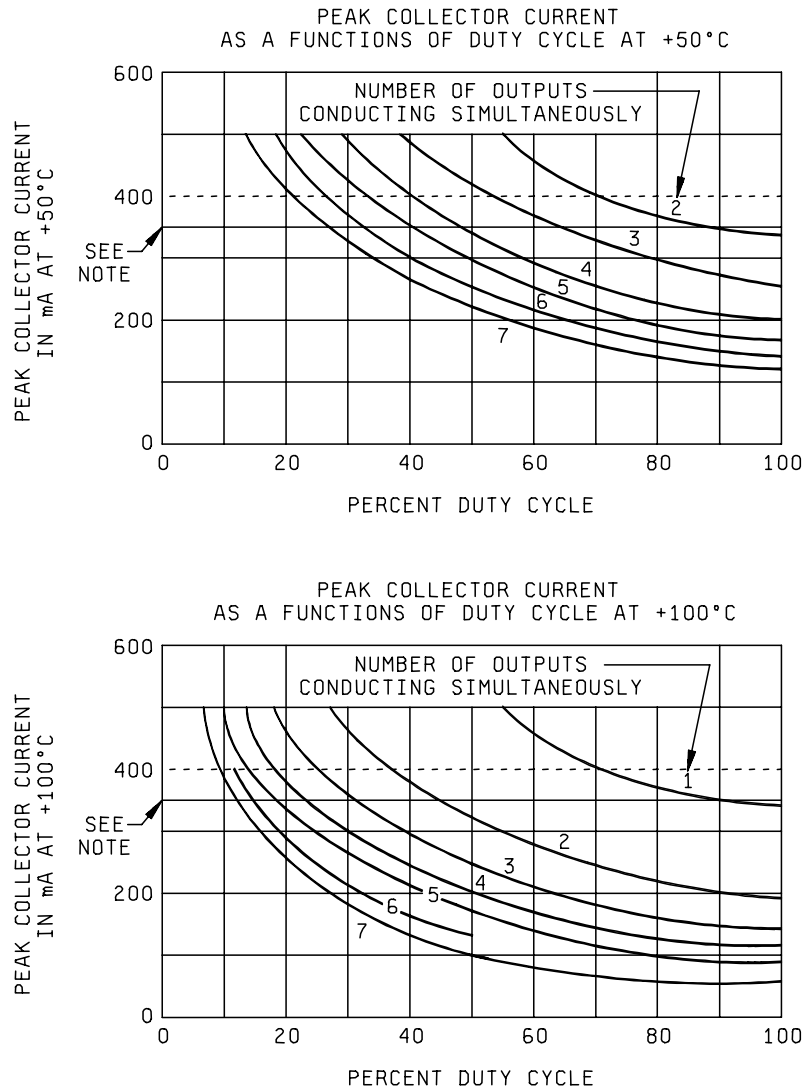
DEVICE TYPES 05 AND 10

NOTES:

1. $f = 10\text{ KHz}$.
2. Duty cycle = 50 percent.

FIGURE 4. Switching time test circuits and waveforms – Continued.

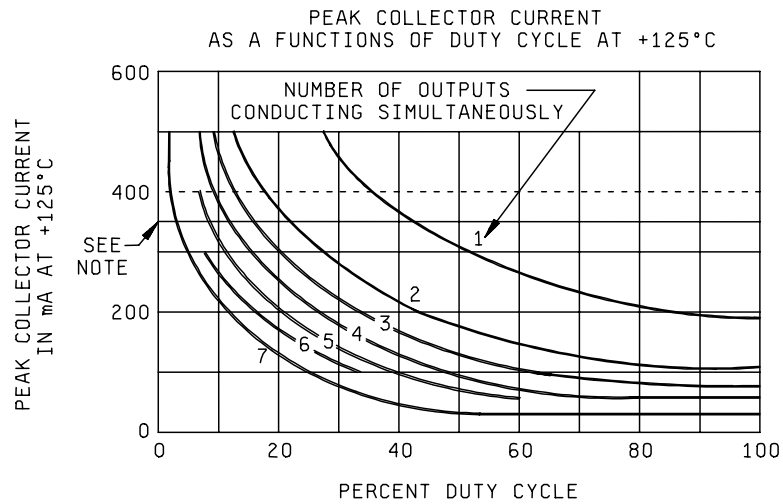
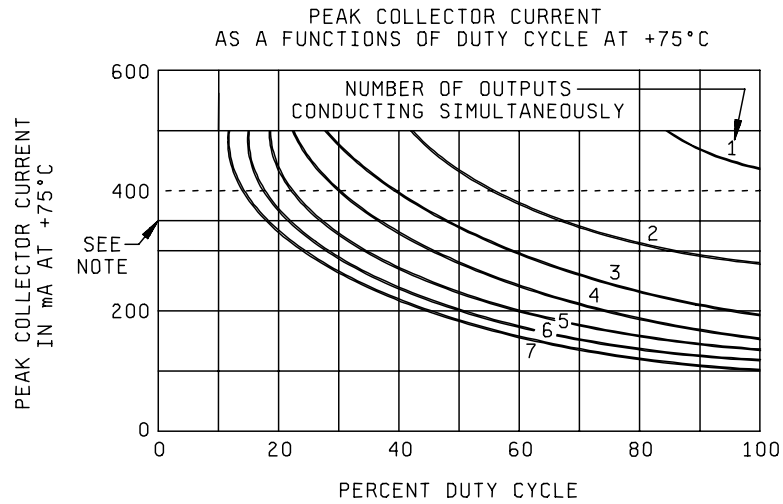
DEVICE TYPES 01,02,03,04 AND 05



* Line indicates the recommended maximum current of 350 mA.

FIGURE 5. Peak collector current as a function of duty cycle.

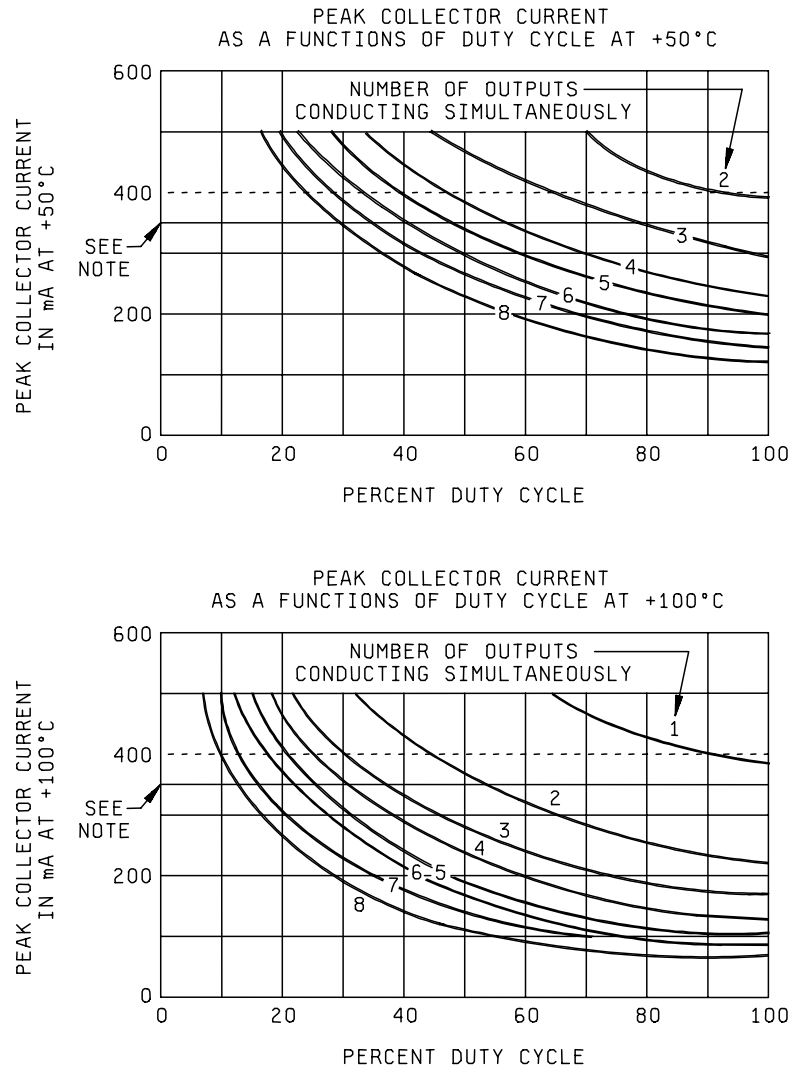
DEVICE TYPES 01,02,03,04 AND 05



* Line indicates the recommended maximum current of 350 mA.

FIGURE 5. Peak collector current as a function of duty cycle – continued.

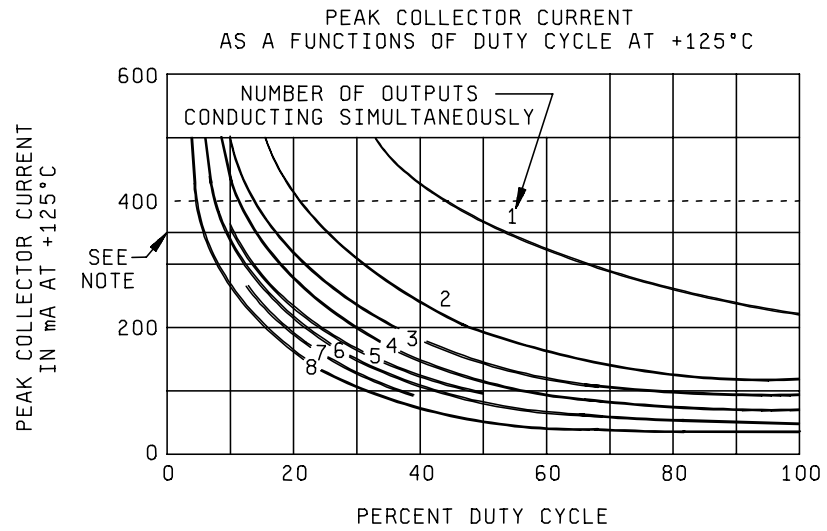
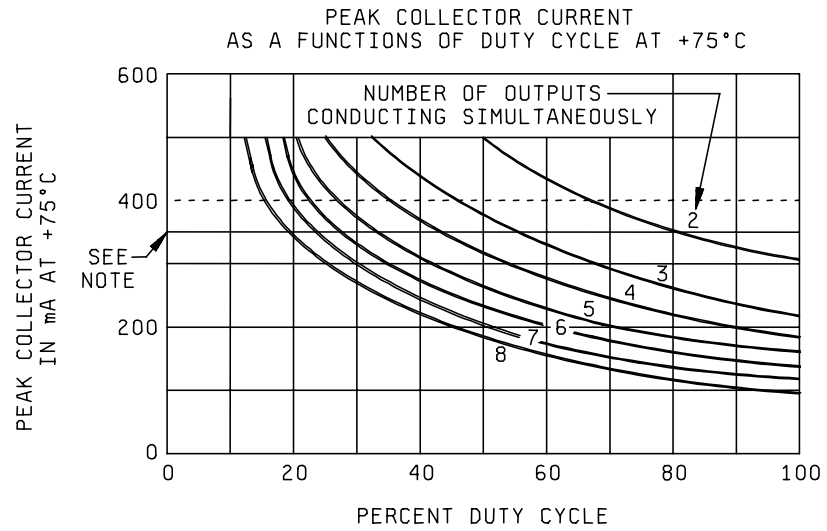
DEVICE TYPES 06,07,08,09 AND 10



* Line indicates the recommended maximum current of 350 mA.

FIGURE 5. Peak collector current as a function of duty cycle – continued.

DEVICE TYPES 06,07,08,09 AND 10



* Line indicates the recommended maximum current of 350 mA.

FIGURE 5. Peak collector current as a function of duty cycle – Continued.

TABLE III. Group A inspection for device type 01.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
1 T _A = +25°C	I _{CEX}		1	IN ₁									OUT ₆				50 V	OUT ₁	50 V	OUT ₁	10.0	μA	
			2															50 V			OUT ₂	"	
			3																		OUT ₃	"	
			4																		OUT ₄	"	
			5																		OUT ₅	"	
			6																		OUT ₆	"	
			7																		OUT ₇	"	
V _{CE(sat)}	3007	8	500 μA															350 mA	OUT ₁	350 mA	1.6	V	
		9		500 μA														350 mA	OUT ₂		"		
		10			500 μA														OUT ₃		"		
		11				500 μA													OUT ₄		"		
		12					500 μA												OUT ₅		"		
		13						500 μA											OUT ₆		"		
		14							500 μA										OUT ₇		"		
V _{CE(sat)}	3007	15	350 μA															200 mA	OUT ₁	200 mA	1.3	V	
		16		350 μA														200 mA	OUT ₂		"		
		17			350 μA														OUT ₃		"		
		18				350 μA													OUT ₄		"		
		19					350 μA												OUT ₅		"		
		20						350 μA											OUT ₆		"		
		21							350 μA										OUT ₇		"		
V _{CE(sat)}	3007	22	250 μA															100 mA	OUT ₁	100 mA	1.1	V	
		23		250 μA														100 mA	OUT ₂		"		
		24			250 μA														OUT ₃		"		
		25				250 μA													OUT ₄		"		
		26					250 μA												OUT ₅		"		
		27						250 μA											OUT ₆		"		
		28							250 μA										OUT ₇		"		
I _{IN(off)}		29	25 μA															50 V	OUT ₁	50 V	500	μA	
		30		25 μA														50V	OUT ₂		"		
		31			25 μA														OUT ₃		"		
		32				25 μA													OUT ₄		"		
		33					25 μA												OUT ₅		"		
		34						25 μA											OUT ₆		"		
		35							25 μA										OUT ₇		"		
I _R		36																0 V	COM	0 V	10.0	μA	
		37																	COM		"		
		38																	COM		"		
		39																	COM		"		
		40																	COM		"		
		41																	COM		"		
		42																	COM		"		

TABLE III. Group A inspection for device type 01 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
1 T _A = +25°C	V _F		43	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	350 mA	OUT ₁		2.0	V
			44								"	"						350 mA		OUT ₂		"	"
			45								"	"								OUT ₃		"	"
			46								"	"								OUT ₄		"	"
			47								"	"								OUT ₅		"	"
			48								"	"								OUT ₆		"	"
			49								"	"	350 mA							OUT ₇		"	"
			50	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇	"	"							350 mA	IB ₁ -OUT ₁	1000		
			51								"	"								IB ₂ -OUT ₂	"		
			52								"	"								IB ₃ -OUT ₃	"		
2 T _A = +125°C	I _{CEX}		53								"	"								IB ₄ -OUT ₄	"		
			54								"	"								IB ₅ -OUT ₅	"		
			55								"	"								IB ₆ -OUT ₆	"		
			56								"	"	350 mA							IB ₇ -OUT ₇	"		
			57								0 V									OUT ₁		10.0	μA
			58								"	"								OUT ₂		"	"
			59								"	"								OUT ₃		"	"
			60								"	"								OUT ₄		"	"
			61								"	"								OUT ₅		"	"
			62								"	"								OUT ₆		"	"
			63								"	"	50 V							OUT ₇		"	"
	V _{CE(sat)}	3007	64	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	"	"								OUT ₁		1.8	V
			65								"	"								OUT ₂		"	"
			66								"	"								OUT ₃		"	"
			67								"	"								OUT ₄		"	"
			68								"	"								OUT ₅		"	"
			69								"	"								OUT ₆		"	"
			70								"	"	350 mA							OUT ₇		"	"
			71	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	"	"								OUT ₁		1.5	V
			72								"	"								OUT ₂		"	"
			73								"	"								OUT ₃		"	"
	V _{CE(sat)}	3007	74								"	"								OUT ₄		"	"
			75								"	"								OUT ₅		"	"
			76								"	"								OUT ₆		"	"
			77								"	"	200 mA							OUT ₇		"	"
			78	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	"	"								OUT ₁		1.3	V
			79								"	"								OUT ₂		"	"
			80								"	"								OUT ₃		"	"
			81								"	"								OUT ₄		"	"
			82								"	"								OUT ₅		"	"
			83								"	"								OUT ₆		"	"
			84								"	"	100 mA							OUT ₇		"	"

TABLE III. Group A inspection for device type 01 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
2 $T_A = +125^\circ\text{C}$	$I_{IN}(\text{off})$		85	IN ₁	25 μA															OUT ₁		500	μA
			86			25 μA												50V	50 V	OUT ₂		"	"
			87				25 μA													OUT ₃		"	"
			88					25 μA												OUT ₄		"	"
			89						25 μA											OUT ₅		"	"
			90							25 μA										OUT ₆		"	"
			91								25 μA									OUT ₇		"	"
			92									50 V						0V	0 V	COM		10.0	μA
			93									"								COM		"	"
			94									"								COM		"	"
	I_R		95									"								COM		"	"
			96									"								COM		"	"
			97									"								COM		"	"
			98									"								COM		"	"
			99								0 V	0 V							350 mA	OUT ₁		2.0	V
			100								"	"								OUT ₂		"	"
			101								"	"								OUT ₃		"	"
			102								"	"								OUT ₄		"	"
			103								"	"								OUT ₅		"	"
			104								"	"								OUT ₆		"	"
	V_F		105								"	"								OUT ₇		"	"
			106	IB ₁															350 mA	IB ₁ -OUT ₁		1000	
			107		IB ₂															IB ₂ -OUT ₂		"	
			108			IB ₃														IB ₃ -OUT ₃		"	
			109				IB ₄													IB ₄ -OUT ₄		"	
			110					IB ₅												IB ₅ -OUT ₅		"	
			111						IB ₆											IB ₆ -OUT ₆		"	
			112							IB ₇										IB ₇ -OUT ₇		"	
			113								0 V								50 V	OUT ₁		10.0	μA
			114								"									OUT ₂		"	"
3 $T_A = -55^\circ\text{C}$	I_{CEX}		115								"									OUT ₃		"	"
			116								"									OUT ₄		"	"
			117								"									OUT ₅		"	"
			118								"									OUT ₆		"	"
			119								"									OUT ₇		"	"
			120	850 μA																OUT ₁		1.8	V
			121		850 μA															OUT ₂		"	"
			122			850 μA														OUT ₃		"	"
			123				850 μA													OUT ₄		"	"
			124					850 μA												OUT ₅		"	"
			125						850 μA											OUT ₆		"	"
			126							850 μA										OUT ₇		"	"

TABLE III. Group A inspection for device type 01 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
3 T _A = -55°C	V _{CE(sat)}	3007	127	IN ₁	550 μA		IN ₃	550 μA	IN ₄	550 μA	IN ₅	550 μA	IN ₆	550 μA	IN ₇	0 V	COM	OUT ₇	200 mA	OUT ₁	1.5	V	
			128																200 mA	OUT ₂	"	"	
			129																	OUT ₃	"	"	
			130																	OUT ₄	"	"	
			131																	OUT ₅	"	"	
			132																	OUT ₆	"	"	
			133																	OUT ₇	"	"	
	V _{CE(sat)}	3007	134	350 μA	350 μA														100 mA	OUT ₁	1.3	V	
			135																100 mA	OUT ₂	"	"	
			136																	OUT ₃	"	"	
			137																	OUT ₄	"	"	
			138																	OUT ₅	"	"	
			139																	OUT ₆	"	"	
			140																	OUT ₇	"	"	
I _{IN(off)}		141	25 μA	25 μA														50 V	OUT ₁	500	μA		
		142																50V	OUT ₂	"	"		
		143																50 V	OUT ₃	"	"		
		144																50 V	OUT ₄	"	"		
		145																50 V	OUT ₅	"	"		
		146																50 V	OUT ₆	"	"		
		147																50 V	OUT ₇	"	"		
I _R		148															50 V	0 V	0 V	10.0	μA		
		149															"	0V	COM	"	"		
		150															"	0 V	COM	"	"		
		151															"	0 V	COM	"	"		
		152															"	0 V	COM	"	"		
		153															"	0 V	COM	"	"		
		154															"	0 V	COM	"	"		
V _F		155														0 V	0 V	350 mA	OUT ₁	2.0	V		
		156														"	"	350 mA	OUT ₂	"	"		
		157														"	"	350 mA	OUT ₃	"	"		
		158														"	"	350 mA	OUT ₄	"	"		
		159														"	"	350 mA	OUT ₅	"	"		
		160														"	"	350 mA	OUT ₆	"	"		
		161														"	"	350 mA	OUT ₇	"	"		
h _{FE}	3003	162	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇	"	"	"	"	"	"	"	"	350 mA	IB ₁ -OUT ₁	500			
		163									"	"	"	"	"	"	"	350 mA	IB ₂ -OUT ₂	"	"		
		164									"	"	"	"	"	"	"	350 mA	IB ₃ -OUT ₃	"	"		
		165									"	"	"	"	"	"	"	350 mA	IB ₄ -OUT ₄	"	"		
		166									"	"	"	"	"	"	"	350 mA	IB ₅ -OUT ₅	"	"		
		167									"	"	"	"	"	"	"	350 mA	IB ₆ -OUT ₆	"	"		
		168									"	"	"	"	"	"	"	350 mA	IB ₇ -OUT ₇	"	"		

TABLE III. Group A inspection for device type 01 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max		
9 T _A = +25°C	t _{PLH}	3003 Fig. 4	169	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	IN ₁ -OUT ₁	750		ns	
			170		IN ₂	IN ₃	IN ₄	IN ₅	IN ₆		"					OUT		OUT			IN ₂ -OUT ₂	"		"
			171			IN ₃	IN ₄	IN ₅			"					OUT					IN ₃ -OUT ₃	"		"
			172				IN ₄	IN ₅			"					OUT					IN ₄ -OUT ₄	"		"
			173					IN ₅			"					OUT					IN ₅ -OUT ₅	"		"
			174						IN ₆		"										IN ₆ -OUT ₆	"		"
			175							IN ₇	"				OUT						IN ₇ -OUT ₇	"		"
			176	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅			"								OUT	OUT	IN ₁ -OUT ₁	300		ns
	t _{PHL}	3003 Fig. 4	177		IN ₂	IN ₃	IN ₄	IN ₅			"							OUT		IN ₂ -OUT ₂	"		"	
			178			IN ₃	IN ₄	IN ₅			"					OUT		OUT		IN ₃ -OUT ₃	"		"	
			179				IN ₄	IN ₅			"					OUT				IN ₄ -OUT ₄	"		"	
			180					IN ₅			"				OUT					IN ₅ -OUT ₅	"		"	
			181						IN ₆		"									IN ₆ -OUT ₆	"		"	
			182							IN ₇	"				OUT					IN ₇ -OUT ₇	"		"	

NOTE: Pins not designated are open.

TABLE III. Group A inspection for device type 02.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max		
1 T _A = +25°C	I _{CEX}		1	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			10.0	μA	
			2																50 V				"	"
			3																				"	"
			4																				"	"
			5																				"	"
			6																				"	"
			7											50 V									"	"
	V _{CE(sat)}	3007	8	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	"											1.6	V
			9										"										"	"
			10										"										"	"
			11										"										"	"
			12										"										"	"
			13										"										"	"
			14										"										"	"
V _{CE(sat)}	3007	15	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	"											1.3	V	
		16										"										"	"	
		17										"										"	"	
		18										"										"	"	
		19										"										"	"	
		20										"										"	"	
		21										"										"	"	
V _{CE(sat)}	3007	22	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	350 μA	350 μA										1.1	V	
		23																				"	"	
		24																				"	"	
		25																				"	"	
		26																				"	"	
		27																				"	"	
		28																				"	"	
I _{IN(on)}		29	17 V	17 V	17 V	17 V	17 V	17 V	17 V	17 V	17 V	"										575	μA	
		30										"										"	"	
		31										"										"	"	
		32										"										"	"	
		33										"										"	"	
		34										"										"	"	
		35										"										"	"	
I _{IN(off)}		36	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	17 V	17 V								500	μA	
		37										"										"	"	
		38										"										"	"	
		39										"										"	"	
		40										"										"	"	
		41										"										"	"	
		42										"										"	"	

TABLE III. Group A inspection for device type 02 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation													Measured terminal	Limits		Unit			
				1	2	3	4	5	6	7	8	9	10	11	12	13		14	15		16	Min	Max
1 T _A = +25°C	V _{IN(on)}		43	IN ₁	13 V									OUT ₇			300 mA	OUT ₁	300 mA	OUT ₁	2.0	V	
			44		13 V												300 mA			OUT ₂	"	"	
			45			13 V														OUT ₃	"	"	
			46				13 V													OUT ₄	"	"	
			47					13 V												OUT ₅	"	"	
			48						13 V											OUT ₆	"	"	
			49							13 V										OUT ₇	"	"	
	I _R		50																0 V	0 V	COM	10.0	μA
			51																		COM	"	"
			52																		COM	"	"
			53																		COM	"	"
			54																		COM	"	"
			55																		COM	"	"
			56																		COM	"	"
V _F		57																	350 mA	OUT ₁	2.0	V	
		58																		OUT ₂	"	"	
		59																		OUT ₃	"	"	
		60																		OUT ₄	"	"	
		61																		OUT ₅	"	"	
		62																		OUT ₆	"	"	
		63																		OUT ₇	"	"	
h _{FE}	3003	64	IB ₁																350 mA	IB ₁ -OUT ₁	1000		
		65		IB ₂																IB ₂ -OUT ₂	"		
		66			IB ₃															IB ₃ -OUT ₃	"		
		67				IB ₄														IB ₄ -OUT ₄	"		
		68					IB ₅													IB ₅ -OUT ₅	"		
		69						IB ₆												IB ₆ -OUT ₆	"		
		70							IB ₇											IB ₇ -OUT ₇	"		
I _{CEX}		71																		OUT ₁	10.0	μA	
		72																		OUT ₂	"	"	
		73																		OUT ₃	"	"	
		74																		OUT ₄	"	"	
		75																		OUT ₅	"	"	
		76																		OUT ₆	"	"	
		77																		OUT ₇	"	"	
V _{CE(sat)}	3007	78	500 μA																	OUT ₁	1.8	V	
		79		500 μA																OUT ₂	"	"	
		80			500 μA															OUT ₃	"	"	
		81				500 μA														OUT ₄	"	"	
		82					500 μA													OUT ₅	"	"	
		83						500 μA												OUT ₆	"	"	
		84							500 μA											OUT ₇	"	"	

TABLE III. Group A inspection for device type 02 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
2 $T_A = +125^\circ\text{C}$	$V_{CE(sat)}$	3007	85	IN ₁	350 μA						0 V	COM		OUT ₇		200 mA		OUT ₁	200 mA	OUT ₁		1.5	V
			86				350 μA				"			OUT ₆				200 mA		OUT ₂		"	"
			87								"									OUT ₃		"	"
			88								"									OUT ₄		"	"
			89								"									OUT ₅		"	"
			90								"									OUT ₆		"	"
			91								"									OUT ₇		"	"
			92	250 μA																OUT ₁		1.3	V
			93		250 μA						"									OUT ₂		"	"
			94			250 μA					"									OUT ₃		"	"
	$V_{CE(sat)}$	3007	95				250 μA				"									OUT ₄		"	"
			96								"									OUT ₅		"	"
			97								"									OUT ₆		"	"
			98								"									OUT ₇		"	"
			99	17 V																IN ₁		575	μA
			100		17 V						"									IN ₂		"	"
			101			17 V					"									IN ₃		"	"
			102				17 V				"									IN ₄		"	"
			103					17 V			"									IN ₅		"	"
			104						17 V		"									IN ₆		"	"
	$I_{IN(off)}$		105								"									IN ₇		"	"
			106	25 μA																OUT ₁		500	μA
			107		25 μA						"									OUT ₂		"	"
			108			25 μA					"									OUT ₃		"	"
			109				25 μA				"									OUT ₄		"	"
			110					25 μA			"									OUT ₅		"	"
			111						25 μA		"									OUT ₆		"	"
			112							25 μA	"									OUT ₇		"	"
			113	13 V							0 V									OUT ₁		2.0	V
			114		13 V						"									OUT ₂		"	"
	$V_{IN(on)}$		115			13 V					"									OUT ₃		"	"
			116				13 V				"									OUT ₄		"	"
			117					13 V			"									OUT ₅		"	"
			118						13 V		"									OUT ₆		"	"
			119							13 V	"									OUT ₇		"	"
			120								"	50 V								COM		10.0	μA
			121								"	"								COM		"	"
			122								"	"								COM		"	"
			123								"	"								COM		"	"
			124								"	"								COM		"	"
			125								"	"								COM		"	"
			126								"	"								COM		"	"

TABLE III. Group A inspection for device type 02 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
2 T _A = +125°C	V _F		127	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁		2.0	V	
			128								0 V	"						350 mA				"	
			129								"	"						350 mA				"	
			130								"	"						350 mA				"	
			131								"	"						350 mA				"	
			132								"	"						350 mA				"	
			133								"	"	350 mA									"	
3 T _A = -55°C	I _{hFE}	3003	134	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇	"						350 mA			1000			
			135									"					350 mA			"			
			136									"					350 mA			"			
			137									"					350 mA			"			
			138									"					350 mA			"			
			139									"					350 mA			"			
			140									"					350 mA			"			
	I _{CEX}		141								0 V						50 V			10.0	μA		
			142								"	"					50 V			"	"		
			143								"	"					50 V			"	"		
			144								"	"					50 V			"	"		
			145								"	"					50 V			"	"		
			146								"	"					50 V			"	"		
			147								"	"	50 V							"	"		
V _{CE(sat)}		3007	148	850 μA	850 μA	850 μA	850 μA	850 μA	850 μA	850 μA	"						350 mA			1.8	V		
			149									"					350 mA			"	"		
			150									"					350 mA			"	"		
			151									"					350 mA			"	"		
			152									"					350 mA			"	"		
			153									"					350 mA			"	"		
			154									"					350 mA			"	"		
V _{CE(sat)}		3007	155	550 μA	550 μA	550 μA	550 μA	550 μA	550 μA	850 μA	"						200 mA			1.5	V		
			156									"					200 mA			"	"		
			157									"					200 mA			"	"		
			158									"					200 mA			"	"		
			159									"					200 mA			"	"		
			160									"					200 mA			"	"		
			161									"					200 mA			"	"		
V _{CE(sat)}		3007	162	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	550 μA	"						100 mA			1.3	V		
			163									"					100 mA			"	"		
			164									"					100 mA			"	"		
			165									"					100 mA			"	"		
			166									"					100 mA			"	"		
			167									"					100 mA			"	"		
			168									"					100 mA			"	"		

TABLE III. Group A inspection for device type 02 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
3 T _A = -55°C	I _{IN} (on)		169	IN ₁	17 V															IN ₁	575	1300	µA
			170		17 V															IN ₂	"	"	"
			171			17 V														IN ₃	"	"	"
			172				17 V													IN ₄	"	"	"
			173					17 V												IN ₅	"	"	"
			174						17 V											IN ₆	"	"	"
			175							17 V										IN ₇	"	"	"
	I _{IN} (off)		176	25 µA															50 V	OUT ₁	500		µA
			177		25 µA															OUT ₂	"	"	"
			178			25 µA														OUT ₃	"	"	"
			179				25 µA													OUT ₄	"	"	"
			180					25 µA												OUT ₅	"	"	"
			181						25 µA											OUT ₆	"	"	"
			182							25 µA										OUT ₇	"	"	"
	V _{IN} (on)		183	18 V							0 V									OUT ₁		2.0	V
			184		18 V						"									OUT ₂	"	"	"
			185			18 V					"									OUT ₃	"	"	"
			186				18 V				"									OUT ₄	"	"	"
			187					18 V			"									OUT ₅	"	"	"
			188						18 V		"									OUT ₆	"	"	"
			189							18 V	"									OUT ₇	"	"	"
	I _R		190								"	50 V								COM		10.0	µA
			191								"	"								COM	"	"	"
			192								"	"								COM	"	"	"
			193								"	"								COM	"	"	"
			194								"	"								COM	"	"	"
			195								"	"								COM	"	"	"
			196								"	"								COM	"	"	"
	V _F		197								0 V									OUT ₁		2.0	V
			198								"	"								OUT ₂	"	"	"
			199								"	"								OUT ₃	"	"	"
			200								"	"								OUT ₄	"	"	"
			201								"	"								OUT ₅	"	"	"
			202								"	"								OUT ₆	"	"	"
			203								"	"								OUT ₇	"	"	"
	h _{FE}	3003	204	IB ₁							"									IB ₁ -OUT ₁	500		
			205		IB ₂						"									IB ₂ -OUT ₂	"	"	
			206			IB ₃					"									IB ₃ -OUT ₃	"	"	
			207				IB ₄				"									IB ₄ -OUT ₄	"	"	
			208					IB ₅			"									IB ₅ -OUT ₅	"	"	
			209						IB ₆		"									IB ₆ -OUT ₆	"	"	
			210							IB ₇	"									IB ₇ -OUT ₇	"	"	

TABLE III. Group A inspection for device type 02 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max		
9 T _A = +25°C	t _{PLH}	3003 Fig. 4	211	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			750	ns	
			212	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"								OUT			"	"	
			213	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"												"	"
			214	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"												"	"
			215	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"												"	"
			216	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"												"	"
			217	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"												"	"
	t _{PHL}	3003 Fig. 4	218	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"								OUT				300	ns
			219	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"								OUT				"	"
			220	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"												"	"
			221	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"												"	"
			222	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"												"	"
			223	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"												"	"
			224	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"												"	"

NOTE: Pins not designated are open.

TABLE III. Group A inspection for device type 03 .

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
1 T _A = +25°C	I _{CEX}		1	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	OUT ₁	10.0	10.0	µA
			2								"				50 V	50 V	50 V	50 V	50 V	OUT ₂	"	"	"
			3								"									OUT ₃	"	"	"
			4								"									OUT ₄	"	"	"
			5								"									OUT ₅	"	"	"
			6								"			50 V						OUT ₆	"	"	"
			7								"									OUT ₇	"	"	"
	V _{CE(sat)}	3007	8	500 µA	500 µA	500 µA	500 µA	500 µA	500 µA	500 µA	"									OUT ₁	1.6	1.6	V
			9								"									OUT ₂	"	"	"
			10								"									OUT ₃	"	"	"
			11								"									OUT ₄	"	"	"
			12								"				350 mA					OUT ₅	"	"	"
			13								"			350 mA						OUT ₆	"	"	"
			14							500 µA	"			350 mA						OUT ₇	"	"	"
	V _{CE(sat)}	3007	15	350 µA	350 µA	350 µA	350 µA	350 µA	350 µA	350 µA	"									OUT ₁	1.3	1.3	V
			16								"									OUT ₂	"	"	"
			17								"									OUT ₃	"	"	"
			18								"									OUT ₄	"	"	"
			19								"				200 mA					OUT ₅	"	"	"
			20								"			200 mA						OUT ₆	"	"	"
			21							350 µA	"			200 mA						OUT ₇	"	"	"
	V _{CE(sat)}	3007	22	250 µA	250 µA	250 µA	250 µA	250 µA	250 µA	250 µA	"									OUT ₁	1.1	1.1	V
			23								"									OUT ₂	"	"	"
			24								"									OUT ₃	"	"	"
			25								"									OUT ₄	"	"	"
			26								"				100 mA					OUT ₅	"	"	"
			27								"			100 mA						OUT ₆	"	"	"
			28							250 µA	"			100 mA						OUT ₇	"	"	"
	I _{IN(on)}		29	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	"									IN ₁	650	1350	µA
			30								"									IN ₂	"	"	"
			31								"									IN ₃	"	"	"
			32								"									IN ₄	"	"	"
			33								"									IN ₅	"	"	"
			34								"									IN ₆	"	"	"
			35							3.85 V	"									IN ₇	"	"	"
	I _{IN(off)}		36	25 µA	25 µA	25 µA	25 µA	25 µA	25 µA	25 µA	"									OUT ₁	500	500	µA
			37								"									OUT ₂	"	"	"
			38								"									OUT ₃	"	"	"
			39								"									OUT ₄	"	"	"
			40								"									OUT ₅	"	"	"
			41								"									OUT ₆	"	"	"
			42							25 µA	"									OUT ₇	"	"	"

TABLE III. Group A inspection for device type 03 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max		
1 T _A = +25°C	V _{IN(on)}		43	IN ₁	2.0 V		IN ₃	2.0 V	IN ₄	2.0 V	IN ₅	2.0 V	IN ₆	2.0 V	IN ₇	2.0 V	GND	0 V	OUT ₁	200 mA	OUT ₁	2.0		V
			44																	200 mA				
			45																					
			46																					
			47																					
			48																					
			49																					
			50																					
	V _{IN(on)}		51	2.2 V		2.2 V											0 V		250 mA	250 mA	OUT ₁	2.0		V
			52																					
			53																					
			54																					
			55																					
			56																					
			57																					
			58																					
	V _{IN(on)}		59	2.4 V		2.4 V											0 V		300 mA	300 mA	OUT ₁	2.0		V
			60																					
			61																					
			62																					
			63																					
			64																					
			65																					
			66																					
	I _R		67																					
			68																					
			69																					
			70																					
			71																					
			72																					
			73																					
			74																					
	V _F		75																					
			76																					
			77																					
			78																					
			79																					
			80																					
			81																					
			82																					
	h _{FE}	3003	83	IB ₁		IB ₃		IB ₄		IB ₅		IB ₆		IB ₇										
			84																					

TABLE III. Group A inspection for device type 03 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
2 $T_A = +125^\circ\text{C}$	ICEX		85	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	50 V	OUT ₁		10.0	μA
			86								"							50 V		OUT ₂		"	"
			87								"									OUT ₃		"	"
			88								"									OUT ₄		"	"
			89								"									OUT ₅		"	"
			90								"			50 V						OUT ₆		"	"
			91								"									OUT ₇		"	"
	$V_{CE(\text{sat})}$	3007	92	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	"							350 mA	350 mA	OUT ₁		1.8	V
			93								"									OUT ₂		"	"
			94								"									OUT ₃		"	"
	$V_{CE(\text{sat})}$	3007	95								"									OUT ₄		"	"
			96								"									OUT ₅		"	"
			97								"			350 mA						OUT ₆		"	"
			98							500 μA	"									OUT ₇		"	"
	$V_{CE(\text{sat})}$	3007	99	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	"								200 mA	OUT ₁		1.5	V
			100								"									OUT ₂		"	"
			101								"									OUT ₃		"	"
	$V_{CE(\text{sat})}$	3007	102								"									OUT ₄		"	"
			103								"									OUT ₅		"	"
			104								"			200 mA						OUT ₆		"	"
	$V_{CE(\text{sat})}$	3007	105							350 μA	"									OUT ₇		"	"
			106	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	"									OUT ₁		1.3	V
			107								"									OUT ₂		"	"
			108								"									OUT ₃		"	"
			109								"									OUT ₄		"	"
			110								"									OUT ₅		"	"
			111								"			100 mA						OUT ₆		"	"
			112							250 μA	"									OUT ₇		"	"
	$I_{IN(\text{on})}$		113	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	"									IN ₁		1350	μA
			114								"									IN ₂		"	"
			115								"									IN ₃		"	"
	$I_{IN(\text{off})}$		116								"									IN ₄		"	"
			117								"									IN ₅		"	"
			118								"									IN ₆		"	"
			119							3.85 V	"									IN ₇		"	"
			120	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	"									OUT ₁		500	μA
			121								"									OUT ₂		"	"
			122								"									OUT ₃		"	"
			123								"									OUT ₄		"	"
			124								"									OUT ₅		"	"
			125								"									OUT ₆		"	"
			126							25 μA	"									OUT ₇		"	"

TABLE III. Group A inspection for device type 03 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max			
2 T _A = +125°C	V _{IN(on)}		127	IN ₁	2.0 V		IN ₃	2.0 V	IN ₄	2.0 V	IN ₅	2.0 V	IN ₆	2.0 V	IN ₇	2.0 V	0 V	COM	OUT ₇	200 mA	OUT ₁	200 mA		2.0	V
			128																		OUT ₂	200 mA		"	"
			129																		OUT ₃			"	"
			130																		OUT ₄			"	"
			131																		OUT ₅			"	"
			132																		OUT ₆			"	"
			133																		OUT ₇			"	"
	V _{IN(on)}		134	2.2 V		2.2 V			2.2 V						0 V				250 mA	OUT ₁	250 mA		2.0	V	
			135													"				OUT ₂			"	"	
			136													"				OUT ₃			"	"	
			137													"				OUT ₄			"	"	
			138													"				OUT ₅			"	"	
			139													"				OUT ₆			"	"	
			140													2.2 V				OUT ₇			"	"	
	V _{IN(on)}		141	2.4 V		2.4 V			2.4 V					0 V					300 mA	OUT ₁	300 mA		2.0	V	
			142												"					OUT ₂			"	"	
			143												"					OUT ₃			"	"	
			144												"					OUT ₄			"	"	
			145												"					OUT ₅			"	"	
			146													"				OUT ₆			"	"	
			147												2.4 V					OUT ₇			"	"	
	I _r		148											"	50 V				0 V	COM	0 V		10.0	μA	
			149												"	"				COM			"	"	
			150												"	"				COM			"	"	
			151												"	"				COM			"	"	
			152												"	"				COM			"	"	
			153												"	"				COM			"	"	
			154												"	"				COM			"	"	
	V _F		155											0 V					350 mA	OUT ₁	350 mA		2.0	V	
			156												"					OUT ₂			"	"	
			157												"					OUT ₃			"	"	
			158												"					OUT ₄			"	"	
			159												"					OUT ₅			"	"	
			160												"					OUT ₆			"	"	
			161												"	350 mA				OUT ₇			"	"	
	h _{FE}	3003	162	IB ₁										"					350 mA	IB ₁ -OUT ₁	350 mA		1000		
			163												"					IB ₂ -OUT ₂			"	"	
			164												"					IB ₃ -OUT ₃			"	"	
			165												"					IB ₄ -OUT ₄			"	"	
			166												"					IB ₅ -OUT ₅			"	"	
			167												"					IB ₆ -OUT ₆			"	"	
			168												IB ₇					IB ₇ -OUT ₇			"	"	

TABLE III. Group A inspection for device type 03 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit					
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max						
3 T _A = -55°C	I _{CEX}		169																					10.0	μA			
			170																					"	"	"		
			171																						"	"	"	
			172																						"	"	"	
			173																						"	"	"	
			174																						"	"	"	
			175																						"	"	"	
	V _{CE(sat)}	3007	176	850 μA																						1.8	V	
			177	850 μA																						"	"	"
			178		850 μA																					"	"	"
			179			850 μA																				"	"	"
			180				850 μA																			"	"	"
			181					850 μA																		"	"	"
			182						850 μA																	"	"	"
V _{CE(sat)}	3007	183	550 μA								850 μA														1.5	V		
		184	550 μA																						"	"	"	
		185		550 μA																					"	"	"	
		186			550 μA																				"	"	"	
		187				550 μA																			"	"	"	
		188					550 μA																		"	"	"	
		189						550 μA																	"	"	"	
V _{CE(sat)}	3007	190	350 μA																						1.3	V		
		191	350 μA																						"	"	"	
		192		350 μA																					"	"	"	
		193			350 μA																				"	"	"	
		194				350 μA																			"	"	"	
		195					350 μA																		"	"	"	
		196						350 μA																	"	"	"	
I _{IN(on)}		197	3.85 V																						650	1350	μA	
		198	3.85 V																						"	"	"	
		199		3.85 V																					"	"	"	
		200			3.85 V																				"	"	"	
		201				3.85 V																			"	"	"	
		202					3.85 V																		"	"	"	
		203						3.85 V																	"	"	"	
I _{IN(off)}		204	25 μA																						500	μA		
		205	25 μA																						"	"	"	
		206		25 μA																					"	"	"	
		207			25 μA																				"	"	"	
		208				25 μA																			"	"	"	
		209					25 μA																		"	"	"	
		210						25 μA																	"	"	"	

TABLE III. Group A inspection for device type 03 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
3 T _A = -55°C	V _{IN(on)}		211	IN ₁	2.6 V		IN ₃	2.6 V	IN ₄	2.6 V	IN ₅	2.6 V	IN ₆	2.6 V	IN ₇	2.6 V	GND	0 V	OUT ₇	200 mA	OUT ₁	2.0	V
			212																	200 mA	OUT ₂	"	"
			213																		OUT ₃	"	"
			214																	200 mA	OUT ₄	"	"
			215																	200 mA	OUT ₅	"	"
			216																		OUT ₆	"	"
			217																	200 mA	OUT ₇	"	"
	V _{IN(on)}		218	IN ₁	2.8 V		IN ₃	2.8 V	IN ₄	2.8 V	IN ₅	2.8 V	IN ₆	2.8 V	IN ₇	2.8 V	GND	0 V	OUT ₇	250 mA	OUT ₁	2.0	V
			219																	250 mA	OUT ₂	"	"
			220																		OUT ₃	"	"
			221																	250 mA	OUT ₄	"	"
			222																	250 mA	OUT ₅	"	"
			223																		OUT ₆	"	"
			224																	250 mA	OUT ₇	"	"
	V _{IN(on)}		225	IN ₁	3.0 V		IN ₃	3.0 V	IN ₄	3.0 V	IN ₅	3.0 V	IN ₆	3.0 V	IN ₇	3.0 V	GND	0 V	OUT ₇	300 mA	OUT ₁	2.0	V
			226																	300 mA	OUT ₂	"	"
			227																		OUT ₃	"	"
			228																	300 mA	OUT ₄	"	"
			229																	300 mA	OUT ₅	"	"
			230																		OUT ₆	"	"
			231																	300 mA	OUT ₇	"	"
	I _R		232															50 V		0 V	COM	10.0	μA
			233															"		0V	COM	"	"
			234															"		0 V	COM	"	"
			235															"		0 V	COM	"	"
			236															"		0 V	COM	"	"
			237															"		0 V	COM	"	"
			238															"		0 V	COM	"	"
	V _F		239														0 V	0 V	350 mA	350 mA	OUT ₁	2.0	V
			240															"		350 mA	OUT ₂	"	"
			241															"			OUT ₃	"	"
			242															"		350 mA	OUT ₄	"	"
			243															"		350 mA	OUT ₅	"	"
			244															"			OUT ₆	"	"
			245															"		350 mA	OUT ₇	"	"
	h _{FE}	3003	246	IB ₁													"			350 mA	IB ₁ -OUT ₁	500	
			247															"		350 mA	IB ₂ -OUT ₂	"	"
			248															"			IB ₃ -OUT ₃	"	"
			249															"		350 mA	IB ₄ -OUT ₄	"	"
			250															"		350 mA	IB ₅ -OUT ₅	"	"
			251															"			IB ₆ -OUT ₆	"	"
			252															"		350 mA	IB ₇ -OUT ₇	"	"

TABLE III. Group A inspection for device type 03 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
9 T _A = +25°C	t _{PLH}	3003 Fig. 4	253	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	IN ₁ -OUT ₁	750		ns
			254		IN ₂	IN ₃	IN ₄	IN ₅	IN ₆		"				OUT		OUT			IN ₂ -OUT ₂	"		"
			255			IN ₃	IN ₄	IN ₅	IN ₆		"					OUT				IN ₃ -OUT ₃	"		"
			256				IN ₄	IN ₅	IN ₆		"						OUT			IN ₄ -OUT ₄	"		"
			257					IN ₅	IN ₆		"			OUT						IN ₅ -OUT ₅	"		"
			258						IN ₆		"		OUT							IN ₆ -OUT ₆	"		"
			259							IN ₇	"									IN ₇ -OUT ₇	"		"
	t _{PHL}	3003 Fig. 4	260	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"							OUT	OUT	IN ₁ -OUT ₁	300		ns
			261		IN ₂	IN ₃	IN ₄	IN ₅	IN ₆		"						OUT		OUT	IN ₂ -OUT ₂	"		"
			262			IN ₃	IN ₄	IN ₅	IN ₆		"						OUT			IN ₃ -OUT ₃	"		"
			263				IN ₄	IN ₅	IN ₆		"				OUT					IN ₄ -OUT ₄	"		"
			264					IN ₅	IN ₆		"			OUT						IN ₅ -OUT ₅	"		"
			265						IN ₆		"									IN ₆ -OUT ₆	"		"
			266							IN ₇	"		OUT							IN ₇ -OUT ₇	"		"

NOTE: Pins not designated are open.

TABLE III. Group A inspection for device type 04.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
1 $T_A = +25^\circ\text{C}$	ICEX		1	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	OUT ₁	10.0	10.0	μA
			2								"				50 V	50 V	50 V	50 V	50 V	OUT ₂	"	"	"
			3								"									OUT ₃	"	"	"
			4								"									OUT ₄	"	"	"
			5								"									OUT ₅	"	"	"
			6								"			50 V						OUT ₆	"	"	"
			7								"									OUT ₇	"	"	"
	$V_{CE(\text{sat})}$	3007	8	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	"									OUT ₁	1.6	1.6	V
			9								"									OUT ₂	"	"	"
			10								"									OUT ₃	"	"	"
			11								"									OUT ₄	"	"	"
			12								"				350 mA					OUT ₅	"	"	"
			13								"			350 mA						OUT ₆	"	"	"
			14								"									OUT ₇	"	"	"
	$V_{CE(\text{sat})}$	3007	15	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	"									OUT ₁	1.3	1.3	V
			16								"									OUT ₂	"	"	"
			17								"									OUT ₃	"	"	"
			18								"									OUT ₄	"	"	"
			19								"				200 mA					OUT ₅	"	"	"
			20								"			200 mA						OUT ₆	"	"	"
			21								"									OUT ₇	"	"	"
	$V_{CE(\text{sat})}$	3007	22	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	"									OUT ₁	1.1	1.1	V
			23								"									OUT ₂	"	"	"
			24								"									OUT ₃	"	"	"
			25								"									OUT ₄	"	"	"
			26								"				100 mA					OUT ₅	"	"	"
			27								"			100 mA						OUT ₆	"	"	"
			28								"									OUT ₇	"	"	"
	$I_{IN(\text{on})}$		29	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	"									IN ₁	500	500	μA
			30								"									IN ₂	"	"	"
			31								"									IN ₃	"	"	"
			32								"									IN ₄	"	"	"
			33								"									IN ₅	"	"	"
			34								"									IN ₆	"	"	"
			35								"									IN ₇	"	"	"
	$I_{IN(\text{on})}$		36	12.0 V	12.0 V	12.0 V	12.0 V	12.0 V	12.0 V	12.0 V	"									IN ₁	1450	1450	μA
			37								"									IN ₂	"	"	"
			38								"									IN ₃	"	"	"
			39								"									IN ₄	"	"	"
			40								"									IN ₅	"	"	"
			41								"									IN ₆	"	"	"
			42								"									IN ₇	"	"	"

TABLE III. Group A inspection for device type 04 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max		
1 T _A = +25°C	I _{IN} (off)		43	IN ₁	25 μA									OUT ₆					OUT ₁	50 V		500	μA	
			44		25 μA															OUT ₂	50V		"	"
			45			25 μA														OUT ₃			"	"
			46				25 μA													OUT ₄			"	"
			47					25 μA												OUT ₅			"	"
			48						25 μA											OUT ₆			"	"
			49							25 μA										OUT ₇			"	"
	V _{IN} (on)		50		5.0 V														OUT ₁			2.0	V	
			51			5.0 V														OUT ₂			"	"
			52				5.0 V													OUT ₃			"	"
			53					5.0 V												OUT ₄			"	"
			54						5.0 V											OUT ₅			"	"
			55							5.0 V										OUT ₆			"	"
			56								5.0 V									OUT ₇			"	"
	V _{IN} (on)		57		6.0 V														OUT ₁			2.0	V	
			58			6.0 V														OUT ₂			"	"
			59				6.0 V													OUT ₃			"	"
			60					6.0 V												OUT ₄			"	"
			61						6.0 V											OUT ₅			"	"
			62							6.0 V										OUT ₆			"	"
			63								6.0 V									OUT ₇			"	"
	V _{IN} (on)		64		7.0 V														OUT ₁			2.0	V	
			65			7.0 V														OUT ₂			"	"
			66				7.0 V													OUT ₃			"	"
			67					7.0 V												OUT ₄			"	"
			68						7.0 V											OUT ₅			"	"
			69							7.0 V										OUT ₆			"	"
			70								7.0 V									OUT ₇			"	"
	V _{IN} (on)		71		8.0 V														OUT ₁			2.0	V	
			72			8.0 V														OUT ₂			"	"
			73				8.0 V													OUT ₃			"	"
			74					8.0 V												OUT ₄			"	"
			75						8.0 V											OUT ₅			"	"
			76							8.0 V										OUT ₆			"	"
			77								8.0 V									OUT ₇			"	"
	I _r		78									50 V							COM			10.0	μA	
			79									"							COM			"	"	
			80									"							COM			"	"	
			81									"							COM			"	"	
			82									"							COM			"	"	
			83									"							COM			"	"	
			84									"							COM			"	"	

TABLE III. Group A inspection for device type 04 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
1 T _A = +25°C	V _F		85	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	OUT ₁		2.0	V
			86								0 V							350 mA		OUT ₂		"	"
			87								"	"						350 mA		OUT ₃		"	"
			88								"	"						350 mA		OUT ₄		"	"
			89								"	"						350 mA		OUT ₅		"	"
			90								"	"						350 mA		OUT ₆		"	"
			91								"	"	350 mA							OUT ₇		"	"
			92	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇								350 mA		IB ₁ -OUT ₁	1000		
			93								"							350 mA		IB ₂ -OUT ₂	"		
			94								"							350 mA		IB ₃ -OUT ₃	"		
2 T _A = +125°C	I _C EX		95								"							350 mA		IB ₄ -OUT ₄	"		
			96								"							350 mA		IB ₅ -OUT ₅	"		
			97								"							350 mA		IB ₆ -OUT ₆	"		
			98								"		350 mA							IB ₇ -OUT ₇	"		
			99								0 V							50 V		OUT ₁		10.0	µA
			100								"							50 V		OUT ₂		"	"
			101								"							50 V		OUT ₃		"	"
			102								"							50 V		OUT ₄		"	"
			103								"							50 V		OUT ₅		"	"
			104								"							50 V		OUT ₆		"	"
			105								"									OUT ₇		"	"
	V _{CE(sat)}	3007	106	500 µA							"							350 mA		OUT ₁		1.8	V
			107		500 µA						"							350 mA		OUT ₂		"	"
			108			500 µA					"							350 mA		OUT ₃		"	"
			109				500 µA				"							350 mA		OUT ₄		"	"
			110					500 µA			"							350 mA		OUT ₅		"	"
			111						500 µA		"							350 mA		OUT ₆		"	"
			112							500 µA	"									OUT ₇		"	"
	V _{CE(sat)}	3007	113	350 µA							"							200 mA		OUT ₁		1.5	V
			114		350 µA						"							200 mA		OUT ₂		"	"
			115			350 µA					"							200 mA		OUT ₃		"	"
			116				350 µA				"							200 mA		OUT ₄		"	"
			117					350 µA			"							200 mA		OUT ₅		"	"
			118						350 µA		"							200 mA		OUT ₆		"	"
			119							350 µA	"									OUT ₇		"	"
	V _{CE(sat)}	3007	120	250 µA							"							100 mA		OUT ₁		1.3	V
			121		250 µA						"							100 mA		OUT ₂		"	"
			122			250 µA					"							100 mA		OUT ₃		"	"
			123				250 µA				"							100 mA		OUT ₄		"	"
			124					250 µA			"							100 mA		OUT ₅		"	"
			125						250 µA		"							100 mA		OUT ₆		"	"
			126							250 µA	"									OUT ₇		"	"

TABLE III. Group A inspection for device type 04 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
2 $T_A = +125^\circ\text{C}$	$I_{IN}(\text{on})$		127	I_{N1}	I_{N2}	I_{N3}	I_{N4}	I_{N5}	I_{N6}	I_{N7}	GND	COM	OUT7	OUT6	OUT5	OUT4	OUT3	OUT2	OUT1	IN1	250	500	μA
			128	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	"	"	"	"	"	"	"	"	"	IN2	"	"	"
			129								"	"	"	"	"	"	"	"	"	IN3	"	"	"
			130								"	"	"	"	"	"	"	"	"	IN4	"	"	"
			131								"	"	"	"	"	"	"	"	"	IN5	"	"	"
			132								"	"	"	"	"	"	"	"	"	IN6	"	"	"
			133								"	"	"	"	"	"	"	"	"	IN7	"	"	"
	$I_{IN}(\text{on})$		134	12.0 V	12.0 V	12.0 V	12.0 V	12.0 V	12.0 V	12.0 V	"	"	"	"	"	"	"	"	"	IN1	750	1450	μA
			135								"	"	"	"	"	"	"	"	"	IN2	"	"	"
			136								"	"	"	"	"	"	"	"	"	IN3	"	"	"
			137								"	"	"	"	"	"	"	"	"	IN4	"	"	"
			138								"	"	"	"	"	"	"	"	"	IN5	"	"	"
			139								"	"	"	"	"	"	"	"	"	IN6	"	"	"
			140								"	"	"	"	"	"	"	"	"	IN7	"	"	"
	$I_{IN}(\text{off})$		141	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	"	"	"	"	"	"	"	"	"	OUT1			μA
			142								"	"	"	"	"	"	"	"	"	OUT2			"
			143								"	"	"	"	"	"	"	"	"	OUT3			"
			144								"	"	"	"	"	"	"	"	"	OUT4			"
			145								"	"	"	"	"	"	"	"	"	OUT5			"
			146								"	"	"	"	"	"	"	"	"	OUT6			"
			147								"	"	"	"	"	"	"	"	"	OUT7			"
	$V_{IN}(\text{on})$		148	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	0 V	"	"	"	"	"	"	"	"	OUT1			V
			149								"	"	"	"	"	"	"	"	"	OUT2			"
			150								"	"	"	"	"	"	"	"	"	OUT3			"
			151								"	"	"	"	"	"	"	"	"	OUT4			"
			152								"	"	"	"	"	"	"	"	"	OUT5			"
			153								"	"	"	"	"	"	"	"	"	OUT6			"
			154								"	"	"	"	"	"	"	"	"	OUT7			"
	$V_{IN}(\text{on})$		155	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	0 V	"	"	"	"	"	"	"	"	OUT1			V
			156								"	"	"	"	"	"	"	"	"	OUT2			"
			157								"	"	"	"	"	"	"	"	"	OUT3			"
			158								"	"	"	"	"	"	"	"	"	OUT4			"
			159								"	"	"	"	"	"	"	"	"	OUT5			"
			160								"	"	"	"	"	"	"	"	"	OUT6			"
			161								"	"	"	"	"	"	"	"	"	OUT7			"
	$V_{IN}(\text{on})$		162	7.0 V	7.0 V	7.0 V	7.0 V	7.0 V	7.0 V	7.0 V	0 V	"	"	"	"	"	"	"	"	OUT1			V
			163								"	"	"	"	"	"	"	"	"	OUT2			"
			164								"	"	"	"	"	"	"	"	"	OUT3			"
			165								"	"	"	"	"	"	"	"	"	OUT4			"
			166								"	"	"	"	"	"	"	"	"	OUT5			"
			167								"	"	"	"	"	"	"	"	"	OUT6			"
			168								"	"	"	"	"	"	"	"	"	OUT7			"

TABLE III. Group A inspection for device type 04 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit					
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max						
2 T _A = +125°C	V _{IN(on)}		169	IN ₁	8.0 V	IN ₂	8.0 V	IN ₃	8.0 V	IN ₄	8.0 V	IN ₅	8.0 V	IN ₆	8.0 V	IN ₇	GND	COM	OUT ₇	350 mA	350 mA	OUT ₁	350 mA	OUT ₁	2.0		V	
			170																			350 mA		OUT ₂	"		"	
			171																					OUT ₃	"		"	
			172																					OUT ₄	"		"	
			173																					OUT ₅	"		"	
	I _r		174																					OUT ₆	"		"	
			175																					OUT ₇	"		"	
			176																50 V			0 V	0 V	COM	10.0		µA	
			177																"					COM	"		"	
			178																	"					COM	"		"
3 T _A = -55°C	V _F		179																					COM	"		"	
			180																					COM	"		"	
			181																					COM	"		"	
			182																					COM	"		"	
			183																0 V				350 mA	OUT ₁	2.0		V	
	h _{FE}	3003	184															"						OUT ₂	"		"	
			185															"						OUT ₃	"		"	
			186															"						OUT ₄	"		"	
			187															"						OUT ₅	"		"	
			188															"						OUT ₆	"		"	
			189														"						OUT ₇	"		"		
			190	IB ₁																				IB ₁ -OUT ₁	1000			
			191		IB ₂																			IB ₂ -OUT ₂	"			
			192			IB ₃																		IB ₃ -OUT ₃	"			
			193				IB ₄																	IB ₄ -OUT ₄	"			
	I _{CEX}		194																					IB ₅ -OUT ₅	"			
			195																					IB ₆ -OUT ₆	"			
			196																					IB ₇ -OUT ₇	"			
			197																0 V				50 V	50 V	OUT ₁	10.0		µA
			198																"					OUT ₂	"		"	
V _{CE(sat)}	3007	199															"						OUT ₃	"		"		
		200																"					OUT ₄	"		"		
		201																"					OUT ₅	"		"		
		202																"					OUT ₆	"		"		
		203																"					OUT ₇	"		"		
		204	850 µA															"						OUT ₁	1.8		V	
		205		850 µA														"						OUT ₂	"		"	
		206			850 µA													"						OUT ₃	"		"	
		207				850 µA												"						OUT ₄	"		"	
		208					850 µA											"						OUT ₅	"		"	
		209																"						OUT ₆	"		"	
		210																"						OUT ₇	"		"	

TABLE III. Group A inspection for device type 04 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit			
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max				
3 T _A = -55°C	V _{CE(sat)}	3007	211	IN ₁	550 μA																	OUT ₁	1.5	V		
			212		550 μA																		200 mA	"	"	
			213			550 μA																	200 mA	"	"	
			214				550 μA																	200 mA	"	"
			215					550 μA																200 mA	"	"
	216						550 μA															200 mA	"	"		
	217							550 μA														200 mA	"	"		
	V _{CE(sat)}	3007	218	350 μA																			100 mA	1.3	V	
			219		350 μA																		100 mA	"	"	
			220			350 μA																	100 mA	"	"	
221						350 μA																100 mA	"	"		
222							350 μA															100 mA	"	"		
I _{IN(on)}	I _{IN(on)}		223						350 μA														100 mA	"	"	
			224							350 μA													100 mA	"	"	
			225	5.0 V																				250	500 μA	
			226		5.0 V																			"	"	
			227			5.0 V																		"	"	
	I _{IN(on)}		228				5.0 V																	"	"	
			229					5.0 V																"	"	
			230						5.0 V															"	"	
			231							5.0 V														"	"	
			232	12.0 V																				750	1450 μA	
I _{IN(off)}	I _{IN(off)}		233		12.0 V																			"	"	
			234			12.0 V																		"	"	
			235				12.0 V																	"	"	
			236					12.0 V																"	"	
			237						12.0 V															"	"	
	238							12.0 V															"	"		
	I _{IN(off)}		239	25 μA																				500	μA	
			240		25 μA																			"	"	
			241			25 μA																		"	"	
			242				25 μA																	"	"	
243							25 μA																"	"		
V _{IN(on)}		244					25 μA																"	"		
		245						25 μA															"	"		
		246	6.0 V																				2.0	V		
		247		6.0 V																			"	"		
		248			6.0 V																		"	"		
		249				6.0 V																	"	"		
		250					6.0 V																"	"		

TABLE III. Group A inspection for device type 04 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation													Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3 T _A = -55°C	V _{IN(on)}		253	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	OUT ₁
			254	8.0 V	8.0 V	8.0 V	8.0 V	8.0 V	8.0 V	8.0 V	"	"	200 mA	200 mA	200 mA	200 mA	200 mA	200 mA	200 mA	"
			255								"	"								"
			256								"	"								"
			257								"	"								"
			258								"	"	200 mA	200 mA	200 mA					"
			259							8.0 V	"	"								"
	V _{IN(on)}		260	10.0 V	10.0 V	10.0 V	10.0 V	10.0 V			0 V									OUT ₁
			261								"	"								OUT ₂
			262								"	"								OUT ₃
	V _{IN(on)}		263				10.0 V	10.0 V		10.0 V	"	"								OUT ₄
			264								"	"								OUT ₅
			265								"	"								OUT ₆
	V _{IN(on)}		266							10.0 V	"	"	275 mA	275 mA	275 mA	275 mA	275 mA	275 mA	275 mA	OUT ₇
			267	12.0 V	12.0 V	12.0 V	12.0 V	12.0 V			0 V									OUT ₁
			268								"	"								OUT ₂
			269								"	"								OUT ₃
			270								"	"								OUT ₄
	I _r		271								"	"								OUT ₅
			272								"	"								OUT ₆
			273							12.0 V	"	"	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	OUT ₇
	I _r		274								"	50 V								COM
			275								"	"								COM
			276								"	"								COM
			277								"	"								COM
			278								"	"								COM
			279								"	"	0 V	0 V	0 V	0 V	0 V	0 V	0 V	COM
			280								"	"								COM
	V _F		281								0 V	0 V								OUT ₁
			282								"	"								OUT ₂
			283								"	"								OUT ₃
	h _{FE}	3003	284								"	"								OUT ₄
			285								"	"								OUT ₅
			286								"	"								OUT ₆
			287								"	"	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	OUT ₇
			288	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇	"	"								IB ₁ -OUT ₁
			289								"	"								IB ₂ -OUT ₂
			290								"	"								IB ₃ -OUT ₃
			291								"	"								IB ₄ -OUT ₄
			292								"	"								IB ₅ -OUT ₅
			293								"	"								IB ₆ -OUT ₆
			294								"	"								IB ₇ -OUT ₇

TABLE III. Group A inspection for device type 04 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		OUT1	OUT2		OUT3	OUT4	OUT5	OUT6	OUT7	OUT8	OUT9	OUT10	OUT11	OUT12	OUT13	OUT14	OUT15	OUT16	OUT17	OUT18	OUT19	OUT20	OUT21	OUT22	OUT23	OUT24	OUT25	OUT26	OUT27	OUT28	OUT29	OUT30	OUT31	OUT32	OUT33	OUT34	OUT35	OUT36	OUT37	OUT38	OUT39	OUT40	OUT41	OUT42	OUT43	OUT44	OUT45	OUT46	OUT47	OUT48	OUT49	OUT50	OUT51	OUT52	OUT53	OUT54	OUT55	OUT56	OUT57	OUT58	OUT59	OUT60	OUT61	OUT62	OUT63	OUT64	OUT65	OUT66	OUT67	OUT68	OUT69	OUT70	OUT71	OUT72	OUT73	OUT74	OUT75	OUT76	OUT77	OUT78	OUT79	OUT80	OUT81	OUT82	OUT83	OUT84	OUT85	OUT86	OUT87	OUT88	OUT89	OUT90	OUT91	OUT92	OUT93	OUT94	OUT95	OUT96	OUT97	OUT98	OUT99	OUT100	OUT101	OUT102	OUT103	OUT104	OUT105	OUT106	OUT107	OUT108	OUT109	OUT110	OUT111	OUT112	OUT113	OUT114	OUT115	OUT116	OUT117	OUT118	OUT119	OUT120	OUT121	OUT122	OUT123	OUT124	OUT125	OUT126	OUT127	OUT128	OUT129	OUT130	OUT131	OUT132	OUT133	OUT134	OUT135	OUT136	OUT137	OUT138	OUT139	OUT140	OUT141	OUT142	OUT143	OUT144	OUT145	OUT146	OUT147	OUT148	OUT149	OUT150	OUT151	OUT152	OUT153	OUT154	OUT155	OUT156	OUT157	OUT158	OUT159	OUT160	OUT161	OUT162	OUT163	OUT164	OUT165	OUT166	OUT167	OUT168	OUT169	OUT170	OUT171	OUT172	OUT173	OUT174	OUT175	OUT176	OUT177	OUT178	OUT179	OUT180	OUT181	OUT182	OUT183	OUT184	OUT185	OUT186	OUT187	OUT188	OUT189	OUT190	OUT191	OUT192	OUT193	OUT194	OUT195	OUT196	OUT197	OUT198	OUT199	OUT200	OUT201	OUT202	OUT203	OUT204	OUT205	OUT206	OUT207	OUT208	OUT209	OUT210	OUT211	OUT212	OUT213	OUT214	OUT215	OUT216	OUT217	OUT218	OUT219	OUT220	OUT221	OUT222	OUT223	OUT224	OUT225	OUT226	OUT227	OUT228	OUT229	OUT230	OUT231	OUT232	OUT233	OUT234	OUT235	OUT236	OUT237	OUT238	OUT239	OUT240	OUT241	OUT242	OUT243	OUT244	OUT245	OUT246	OUT247	OUT248	OUT249	OUT250	OUT251	OUT252	OUT253	OUT254	OUT255	OUT256	OUT257	OUT258	OUT259	OUT260	OUT261	OUT262	OUT263	OUT264	OUT265	OUT266	OUT267	OUT268	OUT269	OUT270	OUT271	OUT272	OUT273	OUT274	OUT275	OUT276	OUT277	OUT278	OUT279	OUT280	OUT281	OUT282	OUT283	OUT284	OUT285	OUT286	OUT287	OUT288	OUT289	OUT290	OUT291	OUT292	OUT293	OUT294	OUT295	OUT296	OUT297	OUT298	OUT299	OUT300	OUT301	OUT302	OUT303	OUT304	OUT305	OUT306	OUT307	OUT308	OUT309	OUT310	OUT311	OUT312	OUT313	OUT314	OUT315	OUT316	OUT317	OUT318	OUT319	OUT320	OUT321	OUT322	OUT323	OUT324	OUT325	OUT326	OUT327	OUT328	OUT329	OUT330	OUT331	OUT332	OUT333	OUT334	OUT335	OUT336	OUT337	OUT338	OUT339	OUT340	OUT341	OUT342	OUT343	OUT344	OUT345	OUT346	OUT347	OUT348	OUT349	OUT350	OUT351	OUT352	OUT353	OUT354	OUT355	OUT356	OUT357	OUT358	OUT359	OUT360	OUT361	OUT362	OUT363	OUT364	OUT365	OUT366	OUT367	OUT368	OUT369	OUT370	OUT371	OUT372	OUT373	OUT374	OUT375	OUT376	OUT377	OUT378	OUT379	OUT380	OUT381	OUT382	OUT383	OUT384	OUT385	OUT386	OUT387	OUT388	OUT389	OUT390	OUT391	OUT392	OUT393	OUT394	OUT395	OUT396	OUT397	OUT398	OUT399	OUT400	OUT401	OUT402	OUT403	OUT404	OUT405	OUT406	OUT407	OUT408	OUT409	OUT410	OUT411	OUT412	OUT413	OUT414	OUT415	OUT416	OUT417	OUT418	OUT419	OUT420	OUT421	OUT422	OUT423	OUT424	OUT425	OUT426	OUT427	OUT428	OUT429	OUT430	OUT431	OUT432	OUT433	OUT434	OUT435	OUT436	OUT437	OUT438	OUT439	OUT440	OUT441	OUT442	OUT443	OUT444	OUT445	OUT446	OUT447	OUT448	OUT449	OUT450	OUT451	OUT452	OUT453	OUT454	OUT455	OUT456	OUT457	OUT458	OUT459	OUT460	OUT461	OUT462	OUT463	OUT464	OUT465	OUT466	OUT467	OUT468	OUT469	OUT470	OUT471	OUT472	OUT473	OUT474	OUT475	OUT476	OUT477	OUT478	OUT479	OUT480	OUT481	OUT482	OUT483	OUT484	OUT485	OUT486	OUT487	OUT488	OUT489	OUT490	OUT491	OUT492	OUT493	OUT494	OUT495	OUT496	OUT497	OUT498	OUT499	OUT500	OUT501	OUT502	OUT503	OUT504	OUT505	OUT506	OUT507	OUT508	OUT509	OUT510	OUT511	OUT512	OUT513	OUT514	OUT515	OUT516	OUT517	OUT518	OUT519	OUT520	OUT521	OUT522	OUT523	OUT524	OUT525	OUT526	OUT527	OUT528	OUT529	OUT530	OUT531	OUT532	OUT533	OUT534	OUT535	OUT536	OUT537	OUT538	OUT539	OUT540	OUT541	OUT542	OUT543	OUT544	OUT545	OUT546	OUT547	OUT548	OUT549	OUT550	OUT551	OUT552	OUT553	OUT554	OUT555	OUT556	OUT557	OUT558	OUT559	OUT560	OUT561	OUT562	OUT563	OUT564	OUT565	OUT566	OUT567	OUT568	OUT569	OUT570	OUT571	OUT572	OUT573	OUT574	OUT575	OUT576	OUT577	OUT578	OUT579	OUT580	OUT581	OUT582	OUT583	OUT584	OUT585	OUT586	OUT587	OUT588	OUT589	OUT590	OUT591	OUT592	OUT593	OUT594	OUT595	OUT596	OUT597	OUT598	OUT599	OUT600	OUT601	OUT602	OUT603	OUT604	OUT605	OUT606	OUT607	OUT608	OUT609	OUT610	OUT611	OUT612	OUT613	OUT614	OUT615	OUT616	OUT617	OUT618	OUT619	OUT620	OUT621	OUT622	OUT623	OUT624	OUT625	OUT626	OUT627	OUT628	OUT629	OUT630	OUT631	OUT632	OUT633	OUT634	OUT635	OUT636	OUT637	OUT638	OUT639	OUT640	OUT641	OUT642	OUT643	OUT644	OUT645	OUT646	OUT647	OUT648	OUT649	OUT650	OUT651	OUT652	OUT653	OUT654	OUT655	OUT656	OUT657	OUT658	OUT659	OUT660	OUT661	OUT662	OUT663	OUT664	OUT665	OUT666	OUT667	OUT668	OUT669	OUT670	OUT671	OUT672	OUT673	OUT674	OUT675	OUT676	OUT677	OUT678	OUT679	OUT680	OUT681	OUT682	OUT683	OUT684	OUT685	OUT686	OUT687	OUT688	OUT689	OUT690	OUT691	OUT692	OUT693	OUT694	OUT695	OUT696	OUT697	OUT698	OUT699	OUT700	OUT701	OUT702	OUT703	OUT704	OUT705	OUT706	OUT707	OUT708	OUT709	OUT710	OUT711	OUT712	OUT713	OUT714	OUT715	OUT716	OUT717	OUT718	OUT719	OUT720	OUT721	OUT722	OUT723	OUT724	OUT725	OUT726	OUT727	OUT728	OUT729	OUT730	OUT731	OUT732	OUT733	OUT734	OUT735	OUT736	OUT737	OUT738	OUT739	OUT740	OUT741	OUT742	OUT743	OUT744	OUT745	OUT746	OUT747	OUT748	OUT749	OUT750	OUT751	OUT752	OUT753	OUT754	OUT755	OUT756	OUT757	OUT758	OUT759	OUT760	OUT761	OUT762	OUT763	OUT764	OUT765	OUT766	OUT767	OUT768	OUT769	OUT770	OUT771	OUT772	OUT773	OUT774	OUT775	OUT776	OUT777	OUT778	OUT779	OUT780	OUT781	OUT782	OUT783	OUT784	OUT785	OUT786	OUT787	OUT788	OUT789	OUT790	OUT791	OUT792	OUT793	OUT794	OUT795	OUT796	OUT797	OUT798	OUT799	OUT800	OUT801	OUT802	OUT803	OUT804	OUT805	OUT806	OUT807	OUT808	OUT809	OUT810	OUT811	OUT812	OUT813	OUT814	OUT815	OUT816	OUT817	OUT818	OUT819	OUT820	OUT821	OUT822	OUT823	OUT824	OUT825	OUT826	OUT827	OUT828	OUT829	OUT830	OUT831	OUT832	OUT833	OUT834	OUT835	OUT836	OUT837	OUT838	OUT839	OUT840	OUT841	OUT842	OUT843	OUT844	OUT845	OUT846	OUT847	OUT848	OUT849	OUT850	OUT851	OUT852	OUT853	OUT854	OUT855	OUT856	OUT857	OUT858	OUT859	OUT860	OUT861	OUT862	OUT863	OUT864	OUT865	OUT866	OUT867	OUT868	OUT869	OUT870	OUT871	OUT872	OUT873	OUT874	OUT875	OUT876	OUT877	OUT878	OUT879	OUT880	OUT881	OUT882	OUT883	OUT884	OUT885	OUT886	OUT887	OUT888	OUT889	OUT890	OUT891	OUT892	OUT893	OUT894	OUT895	OUT896	OUT897	OUT898	OUT899	OUT900	OUT901	OUT902	OUT903	OUT904	OUT905	OUT906	OUT907	OUT908	OUT909	OUT910	OUT911	OUT912	OUT913	OUT914	OUT915	OUT916	OUT917	OUT918	OUT919	OUT920	OUT921	OUT922	OUT923	OUT924	OUT925	OUT926	OUT927	OUT928	OUT929	OUT930	OUT931	OUT932	OUT933	OUT934	OUT935	OUT936	OUT937	OUT938	OUT939	OUT940	OUT941	OUT942	OUT943	OUT944	OUT945	OUT946	OUT947	OUT948	OUT949	OUT950	OUT951	OUT952	OUT953	OUT954	OUT955	OUT956	OUT957	OUT958	OUT959	OUT960	OUT961	OUT962	OUT963	OUT964	OUT965	OUT966	OUT967	OUT968	OUT969	OUT970	OUT971	OUT972	OUT973	OUT974	OUT975	OUT976	OUT977	OUT978	OUT979	OUT980	OUT981	OUT982	OUT983	OUT984	OUT985	OUT986	OUT987	OUT988	OUT989	OUT990	OUT991	OUT992	OUT993	OUT994	OUT995	OUT996	OUT997	OUT998	OUT999	OUT1000	OUT1001	OUT1002	OUT1003	OUT1004	OUT1005	OUT1006	OUT1007	OUT1008	OUT1009	OUT1010	OUT1011	OUT1012	OUT1013	OUT1014	OUT1015	OUT1016	OUT1017	OUT1018	OUT1019	OUT1020	OUT1021	OUT1022	OUT1023	OUT1024	OUT1025	OUT1026	OUT1027	OUT1028	OUT1029	OUT1030	OUT1031	OUT1032	OUT1033	OUT1034	OUT1035	OUT1036	OUT1037	OUT1038	OUT1039	OUT1040	OUT1041	OUT1042	OUT1043	OUT1044	OUT1045	OUT1046	OUT1047	OUT1048	OUT1049	OUT1050	OUT1051	OUT1052	OUT1053	OUT1054	OUT1055	OUT1056	OUT1057	OUT1058	OUT1059	OUT1060	OUT1061	OUT1062	OUT1063	OUT1064	OUT1065	OUT1066	OUT1067	OUT1068	OUT1069	OUT1070	OUT1071	OUT1072	OUT1073	OUT1074	OUT1075	OUT1076	OUT1077	OUT1078	OUT1079	OUT1080	OUT1081	OUT1082	OUT1083	OUT1084	OUT1085	OUT1086	OUT1087	OUT1088	OUT1089	OUT1090	OUT1091	OUT1092	OUT1093	OUT1094	OUT1095	OUT1096	OUT1097	OUT1098	OUT1099	OUT1100	OUT1101	OUT1102	OUT1103	OUT1104	OUT1105	OUT1106	OUT1107	OUT1108	OUT1109	OUT1110	OUT1111	OUT1112	OUT1113	OUT1114	OUT1115	OUT1116	OUT1117	OUT1118	OUT1119	OUT1120	OUT1121	OUT1122	OUT1123	OUT1124	OUT1125	OUT1126	OUT1127	OUT1128	OUT1129	OUT1130	OUT1131	OUT1132	OUT1133	OUT1134	OUT1135	OUT1136	OUT1137	OUT1138	OUT1139	OUT1140	OUT1141	OUT1142	OUT1143	OUT1144	OUT1145	OUT1146	OUT1147	OUT1148	OUT1149	OUT1150	OUT1151	OUT1152	OUT1153	OUT1154	OUT1155	OUT1156	OUT1157	OUT1158	OUT1159	OUT1160	OUT1161	OUT1162	OUT1163	OUT1164	OUT1165	OUT1166	OUT1167	OUT1168	OUT1169	OUT1170	OUT1171	OUT1172	OUT1173	OUT1174	OUT1175	OUT1176	OUT1177	OUT1178	OUT1179	OUT1180	OUT1181	OUT1182	OUT1183	OUT1184	OUT1185	OUT1186	OUT1187	OUT1188	OUT1189	OUT1190	OUT1191	OUT1192	OUT1193	OUT1194	OUT1195	OUT1196	OUT1197	OUT1198	OUT1199	OUT1200	OUT1201	OUT1202	OUT1203	OUT1204	OUT1205	OUT1206	OUT1207	OUT1208	OUT1209	OUT1210	OUT1211	OUT1212	OUT1213	OUT1214	OUT1215	OUT1216	OUT1217	OUT1218	OUT1219	OUT1220	OUT1221	OUT1222	OUT1223	OUT1224	OUT1225	OUT1226	OUT1227	OUT1228	OUT1229	OUT1230	OUT1231	OUT1232	OUT1233	OUT1234	OUT1235	OUT1236	OUT1237	OUT1238	OUT1239	OUT1240	OUT1241	OUT1242	OUT1243	OUT1244	OUT1245	OUT1246	OUT1247	OUT1248	OUT1249	OUT1250	OUT1251	OUT1252	OUT1253	OUT1254	OUT1255	OUT1256	OUT1257	OUT1258	OUT1259	OUT1260	OUT1261	OUT1262	OUT1263	OUT1264	OUT1265	OUT1266	OUT1267	OUT1268	OUT1269	OUT1270	OUT1271	OUT1272	OUT1273	OUT1274	OUT1275	OUT1276	OUT1277	OUT1278	OUT1279	OUT1280	OUT1281	OUT1282	OUT1283	OUT1284	OUT1285	OUT1286	OUT1287	OUT1288	OUT1289	OUT1290	OUT1291	OUT1292	OUT1293	OUT1294	OUT1295	OUT1296	OUT1297	OUT1298	OUT1299	OUT1300	OUT1301	OUT1302	OUT1303	OUT1304	OUT1305	OUT1306	OUT1307	OUT1308	OUT1309	OUT1310	OUT1311	OUT1312	OUT1313	OUT1314	OUT1315	OUT1316	OUT1317	OUT1318	OUT1319	OUT1320	OUT1321	OUT1322	OUT1323	OUT1324

NOTE: Pins not designated are open.

TABLE III. Group A inspection for device type 05.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max			
1 T _A = +25°C	I _{CEX}		1	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	50 V	50 V	50 V	10.0	μA	
			2													50 V									
			3																						
			4																						
			5																						
			6																						
			7												50 V										
	V _{CE(sat)}	3007	8	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA											350 mA	350 mA	350 mA	1.6	V
			9																						
			10																						
			11																						
			12																						
			13																						
			14								500 μA	500 μA			350 mA										
	V _{CE(sat)}	3007	15	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA											200 mA	200 mA	200 mA	1.3	V
			16																						
			17																						
			18																						
			19																						
			20																						
			21								350 μA	350 μA			200 mA										
	V _{CE(sat)}	3007	22	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA											100 mA	100 mA	100 mA	1.1	V
			23																						
			24																						
			25																						
			26																						
			27																						
			28								250 μA	250 μA			100 mA										
	I _{IN(on)}		29	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V														1180	μA
			30																						
			31																						
			32																						
			33																						
			34																						
			35								3.0 V	3.0 V													
	I _{IN(off)}		36	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA											50 V	50V	50 V	500	μA
			37																						
			38																						
			39																						
			40																						
			41																						
			42								25 μA	25 μA			50 V										

TABLE III. Group A inspection for device type 05 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
1 T _A = +25°C	V _{IN(on)}		43	IN ₁	2.4 V						0 V								OUT ₁	OUT ₁		2.0	V
			44								"								350 mA	OUT ₂		"	"
			45								"								350 mA	OUT ₃		"	"
			46								"								350 mA	OUT ₄		"	"
			47								"								350 mA	OUT ₅		"	"
			48								"								350 mA	OUT ₆		"	"
			49								2.4 V								350 mA	OUT ₇		"	"
			50								"	50 V							0 V	COM		10.0	μA
			51								"	"							0 V	COM		"	"
			52								"	"							0 V	COM		"	"
2 T _A = +125°C	V _F		53								"	"							0 V	COM		"	"
			54								"	"							0 V	COM		"	"
			55								"	"							0 V	COM		"	"
			56								"	"							0 V	COM		"	"
			57								0 V	0 V							350 mA	OUT ₁		2.0	V
			58								"	"							350 mA	OUT ₂		"	"
			59								"	"							350 mA	OUT ₃		"	"
			60								"	"							350 mA	OUT ₄		"	"
			61								"	"							350 mA	OUT ₅		"	"
			62								"	"							350 mA	OUT ₆		"	"
3 T _A = +125°C	h _{FE}	3003	63								"	"							350 mA	OUT ₇		"	"
			64	IB ₁							"	"							350 mA	IB ₁ -OUT ₁	1000		
			65								"	"							350 mA	IB ₂ -OUT ₂	"		
			66								"	"							350 mA	IB ₃ -OUT ₃	"		
			67								"	"							350 mA	IB ₄ -OUT ₄	"		
			68								"	"							350 mA	IB ₅ -OUT ₅	"		
			69								"	"							350 mA	IB ₆ -OUT ₆	"		
			70								"	"							350 mA	IB ₇ -OUT ₇	"		
			71								0 V								50 V	OUT ₁		10.0	μA
			72								"	"							50 V	OUT ₂		"	"
4 T _A = +125°C	I _{CEX}		73								"	"							50 V	OUT ₃		"	"
			74								"	"							50 V	OUT ₄		"	"
			75								"	"							50 V	OUT ₅		"	"
			76								"	"							50 V	OUT ₆		"	"
			77								"	"							50 V	OUT ₇		"	"
			78	500 μA							"	"							350 mA	OUT ₁		1.8	V
			79								"	"							350 mA	OUT ₂		"	"
			80								"	"							350 mA	OUT ₃		"	"
			81								"	"							350 mA	OUT ₄		"	"
			82								"	"							350 mA	OUT ₅		"	"
			83								"	"							350 mA	OUT ₆		"	"
			84								"	"							500 μA	OUT ₇		"	"

TABLE III. Group A inspection for device type 05 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit						
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max							
2 T _A = +125°C	V _{CE(sat)}	3007	85	IN ₁	350 μA																			OUT ₁	1.5	V			
			86		350 μA																					OUT ₂	"	"	
			87																								OUT ₃	"	"
			88																								OUT ₄	"	"
			89																								OUT ₅	"	"
			90																								OUT ₆	"	"
			91																								OUT ₇	"	"
	V _{CE(sat)}	3007	92	250 μA																					OUT ₁	1.3	V		
			93		250 μA																					OUT ₂	"	"	
			94																							OUT ₃	"	"	
I _{IN(on)}		95																							OUT ₄	"	"		
		96																							OUT ₅	"	"		
		97																							OUT ₆	"	"		
		98																							OUT ₇	"	"		
		99	3.0 V																						IN ₁	1180	μA		
		100		3.0 V																					IN ₂	"	"		
		101																							IN ₃	"	"		
I _{IN(off)}		102																							IN ₄	"	"		
		103																							IN ₅	"	"		
		104																							IN ₆	"	"		
		105																							IN ₇	"	"		
		106	25 μA																						OUT ₁	500	μA		
		107		25 μA																					OUT ₂	"	"		
		108																							OUT ₃	"	"		
V _{IN(on)}		109																							OUT ₄	"	"		
		110																							OUT ₅	"	"		
		111																							OUT ₆	"	"		
		112																							OUT ₇	"	"		
		113	2.4 V																						OUT ₁	2.0	V		
		114		2.4 V																					OUT ₂	"	"		
		115																							OUT ₃	"	"		
I _R		116																							OUT ₄	"	"		
		117																							OUT ₅	"	"		
		118																							OUT ₆	"	"		
		119																							OUT ₇	"	"		
		120																							COM	10.0	μA		
		121																							COM	"	"		
		122																							COM	"	"		
123																							COM	"	"				
124																							COM	"	"				
125																							COM	"	"				
126																							COM	"	"				

TABLE III. Group A inspection for device type 05 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max	
2 $T_A = +125^\circ\text{C}$	V _F		127	IN ₁							0 V	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			2.0	V
			128								"	"						350 mA				"	"
			129								"	"						350 mA				"	"
			130								"	"										"	"
			131								"	"			350 mA							"	"
			132								"	"										"	"
			133								"	"	350 mA									"	"
			134	IB ₁							"							350 mA			1000		
			135								"										"		
			136								"										"		
3 $T_A = -55^\circ\text{C}$	I _{CEX}		137								"										"		
			318								"										"		
			139								"										"		
			140								"										"		
			141								0 V												10.0
			142								"											"	"
			143								"											"	"
			144								"											"	"
			145								"											"	"
			146								"											"	"
	V _{CE(sat)}	3007	147								"											"	"
			148	850 μA							"												V
			149		850 μA						"											"	"
			150								"											"	"
			151								"											"	"
			152								"											"	"
			153								"											"	"
			154								"											"	"
			155	550 μA							850 μA												1.8
			156								"											"	"
	V _{CE(sat)}	3007	157								"											"	"
			158								"											"	"
			159								"											"	"
			160								"											"	"
			161								"											"	"
			162	350 μA							550 μA												1.5
			163								"											"	"
			164								"											"	"
			165								"											"	"
			166								"											"	"
			167								"											"	"
			168								"											"	"

TABLE III. Group A inspection for device type 05 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max		
3 T _A = -55°C	I _{IN(on)}		169	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	1180	2400	μA		
			170	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V		"									"	"	"		
			171								"									"	"	"		
			172								"									"	"	"		
			173								"									"	"	"		
	I _{IN(off)}		174							3.0 V										"	"	"		
			175							3.0 V										"	"	"		
			176	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA		"							50 V	50 V		500	μA		
			177								"										"	"	"	
			178								"										"	"	"	
V _{IN(on)}		179																			"	"	"	
		180																			"	"	"	
		181																			"	"	"	
		182							25 μA													"	"	"
		183	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V		0 V											2.0	V		
	I _R		184																			"	"	"
			185																			"	"	"
			186																			"	"	"
			187																			"	"	"
			188							3.0 V													"	"
V _F		189							3.0 V				350 mA									"	"	"
		190									50 V								0 V		10.0	μA		
		191									"										"	"	"	
		192									"										"	"	"	
		193									"										"	"	"	
h _{FE}	3003	194																			"	"	"	
		195																			"	"	"	
		196																			"	"	"	
		197									0 V	0 V									2.0	V		
		198									"	"									"	"	"	
			199								"	"										"	"	"
			200									"	"									"	"	"
			201									"	"									"	"	"
			202									"	"									"	"	"
			203									"	"									"	"	"
		204	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇	"										500				
		205								"										"	"	"		
		206								"										"	"	"		
		207								"										"	"	"		
		208								"										"	"	"		
		209								"										"	"	"		
		210								"										"	"	"		

TABLE III. Group A inspection for device type 05 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																Measured terminal	Limits		Unit		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		Min	Max			
9 T _A = +25°C	t _{PLH}	3003 Fig. 4	211	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	GND	COM	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			750	ns		
			212	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	0 V								OUT					"	
			213	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"									OUT					"
			214	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"										OUT				"
			215	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"											OUT			"
			216	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"				OUT								OUT		"
			217	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"			OUT										OUT	"
	t _{PHL}	3003 Fig. 4	218	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"								OUT					ns	
			219	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"								OUT					"	
			220	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"								OUT					"	
			221	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"								OUT					"	
			222	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"									OUT				"	
			223	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"										OUT				"
			224	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"											OUT			"
				IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	"												OUT		"

NOTE: Pins not designated are open.

TABLE III. Group A inspection for device type 06.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit							
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max								
1 T _A = +25°C	I _C EX		1	IN ₁									OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	50 V	OUT ₁			10.0	μA							
			2																		50 V	OUT ₂			"	"						
			3																			50 V	OUT ₃			"	"					
			4																				50 V	OUT ₄			"	"				
			5																					50 V	OUT ₅			"	"			
			6																						50 V	OUT ₆			"	"		
			7												50 V											50 V	OUT ₇			"	"	
			8																								50 V	OUT ₈			"	"
V _{CE} (sat)		3007	9	500 μA																	350 mA	OUT ₁			1.6	V						
			10		500 μA																		OUT ₂			"	"					
			11																					OUT ₃			"	"				
			12																						OUT ₄			"	"			
			13																							OUT ₅			"	"		
			14																								OUT ₆			"	"	
			15																									OUT ₇			"	"
			16												350 mA														OUT ₈			"
V _{CE} (sat)		3007	17	350 μA																	200 mA	OUT ₁			1.3	V						
			18		350 μA																		OUT ₂			"	"					
			19																					OUT ₃			"	"				
			20																						OUT ₄			"	"			
			21																							OUT ₅			"	"		
			22																								OUT ₆			"	"	
			23																									OUT ₇			"	"
			24												200 mA														OUT ₈			"
V _{CE} (sat)		3007	25	250 μA																	100 mA	OUT ₁			1.1	V						
			26		250 μA																		OUT ₂			"	"					
			27																					OUT ₃			"	"				
			28																						OUT ₄			"	"			
			29																							OUT ₅			"	"		
			30																								OUT ₆			"	"	
			31																									OUT ₇			"	"
			32												100 mA														OUT ₈			"
I _{IN} (off)			33	25 μA																	50 V	OUT ₁			500	μA						
			34																				OUT ₂			"	"					
			35																					OUT ₃			"	"				
			36																						OUT ₄			"	"			
			37																							OUT ₅			"	"		
			38																								OUT ₆			"	"	
			39																									OUT ₇			"	"
			40																										OUT ₈			"

TABLE III. Group A inspection for device type 06 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max		
1 T _A = +25°C	I _R		41	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			COM	10.0	μA
			42										0 V	50 V					0 V		0 V			COM	"	"
			43											"	"									COM	"	"
			44											"	"									COM	"	"
			45											"	"									COM	"	"
			46											"	"									COM	"	"
			47											"	"									COM	"	"
			48											"		0 V								COM	"	"
	V _F		49									"	0 V										OUT ₁	2.0	V	
			50										"	"									OUT ₂	"	"	
			51										"	"									OUT ₃	"	"	
			52										"	"									OUT ₄	"	"	
			53										"	"									OUT ₅	"	"	
			54										"	"									OUT ₆	"	"	
			55										"	"									OUT ₇	"	"	
			56										"	"	350 mA								OUT ₈	"	"	
	h _{FE}	3003	57	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇	IB ₈	"	0 V										IB ₁ -OUT ₁	1000		
			58										"	"									IB ₂ -OUT ₂	"		
			59										"	"									IB ₃ -OUT ₃	"		
			60										"	"									IB ₄ -OUT ₄	"		
			61										"	"									IB ₅ -OUT ₅	"		
			62										"	"									IB ₆ -OUT ₆	"		
			63										"	"									IB ₇ -OUT ₇	"		
			64										"	"	350 mA									IB ₈ -OUT ₈	"	
	I _C EX		65									0 V											OUT ₁	10.0	μA	
			66										"	"									OUT ₂	"	"	
			67										"	"									OUT ₃	"	"	
			68										"	"									OUT ₄	"	"	
			69										"	"									OUT ₅	"	"	
			70										"	"									OUT ₆	"	"	
			71										"	"									OUT ₇	"	"	
			72										"	"	50 V								OUT ₈	"	"	
	V _{CE} (sat)	3007	73	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	"											OUT ₁	1.8	V	
			74										"	"									OUT ₂	"	"	
			75										"	"									OUT ₃	"	"	
			76										"	"									OUT ₄	"	"	
			77										"	"									OUT ₅	"	"	
			78										"	"									OUT ₆	"	"	
			79										"	"									OUT ₇	"	"	
			80										"	"	350 mA									OUT ₈	"	"

TABLE III. Group A inspection for device type 06 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit			
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max				
2 T _A = +125°C	V _{CE(sat)}	3007	81	350 μA	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	200 mA	OUT ₁	200 mA	1.5	V		
			82	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	"
			83																									"
			84																									"
			85																									"
			86																									"
			87																									"
			88																									"
	V _{CE(sat)}	3007	89	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	V
			90																									"
			91																									"
			92																									"
			93																									"
			94																									"
			95																									"
			96																									"
	I _{IN(off)}		97	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	μA
			98																									"
			99																									"
			100																									"
			101																									"
			102																									"
			103																									"
			104																									"
	I _R		105									0 V	50 V										0 V	COM	COM	10.0	μA	
			106											"	"								0 V	COM	COM	"	"	
			107											"	"								0 V	COM	COM	"	"	
			108											"	"								0 V	COM	COM	"	"	
			109											"	"								0 V	COM	COM	"	"	
			110											"	"								0 V	COM	COM	"	"	
			111											"	"								0 V	COM	COM	"	"	
			112											"	"								0 V	COM	COM	"	"	
	V _F		113									0 V	"									350 mA	OUT ₁	350 mA	2.0	V		
			114									"	"									350 mA	OUT ₂	350 mA	"	"		
			115									"	"									350 mA	OUT ₃	350 mA	"	"		
			116									"	"									350 mA	OUT ₄	350 mA	"	"		
			117									"	"									350 mA	OUT ₅	350 mA	"	"		
			118									"	"									350 mA	OUT ₆	350 mA	"	"		
			119									"	"									350 mA	OUT ₇	350 mA	"	"		
			120									"	"									350 mA	OUT ₈	350 mA	"	"		

TABLE III. Group A inspection for device type 06 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max	
2 T _A = +125°C	hFE	3003	121	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	IB ₁ -OUT ₁			
			122		IB ₂							0 V										350 mA			
			123			IB ₃						"	"									350 mA			
			124				IB ₄					"	"									350 mA			
			125					IB ₅				"	"									350 mA			
			126						IB ₆			"	"									350 mA			
			127							IB ₇		"	"									350 mA			
			128								IB ₈	"	"		350 mA							350 mA			
3 T _A = -55°C	I _C EX		129																		50 V				
			130									0 V									50 V				
			131									"									50 V				
			132									"									50 V				
			133									"									50 V				
			134									"									50 V				
			135									"									50 V				
			136									"				50 V					50 V				
V _{CE} (sat)		3007	137	850 μA																	350 mA				
			138		850 μA							"									350 mA				
			139			850 μA						"									350 mA				
			140				850 μA					"									350 mA				
			141					850 μA				"									350 mA				
			142						850 μA			"									350 mA				
			143							850 μA		"									350 mA				
			144								850 μA	"	"		350 mA						350 mA				
V _{CE} (sat)		3007	145	550 μA																	200 mA				
			146		550 μA							"									200 mA				
			147			550 μA						"									200 mA				
			148				550 μA					"									200 mA				
			149					550 μA				"									200 mA				
			150						550 μA			"									200 mA				
			151							550 μA		"									200 mA				
			152								550 μA	"	"		200 mA						200 mA				
V _{CE} (sat)		3007	153	350 μA																	100 mA				
			154		350 μA							"									100 mA				
			155			350 μA						"									100 mA				
			156				350 μA					"									100 mA				
			157					350 μA				"									100 mA				
			158						350 μA			"									100 mA				
			159							350 μA		"									100 mA				
			160								350 μA	"	"		100 mA						100 mA				

TABLE III. Group A inspection for device type 06 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max			
3 T _A = -55°C	I _{IN} (off)		161	IN ₁	25 μA																				500	μA	
			162		25 μA																						"
			163			25 μA																					"
			164				25 μA																				"
			165					25 μA																			"
			166						25 μA																		"
			167							25 μA																	"
			168								25 μA																"
	I _R		169								50 V															10.0	μA
			170								"	"														"	
			171								"	"														"	
			172								"	"														"	
			173								"	"														"	
			174								"	"														"	
			175								"	"														"	
			176								"	"	0 V														"
	V _F		177								0 V															2.0	V
			178								"	"														"	
			179								"	"														"	
			180								"	"														"	
			181								"	"														"	
			182								"	"														"	
			183								"	"														"	
			184								"	"	350 mA														"
	h _{FE}	3003	185	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇	IB ₈	0 V														500	
			186										"													"	
			187										"													"	
			188										"													"	
			189										"													"	
			190										"													"	
			191										"													"	
			192										"													"	

TABLE III. Group A inspection for device type 06 – Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
				IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁				
9 T _A = +25°C	t _{PLH}	3003 Fig. 4	193	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	0 V							OUT	OUT	IB ₁ -OUT ₁	750	ns		
			194																OUT		IB ₂ -OUT ₂	"	"		
			195																		IB ₃ -OUT ₃	"	"		
			196																		IB ₄ -OUT ₄	"	"		
			197																		IB ₅ -OUT ₅	"	"		
			198																		IB ₆ -OUT ₆	"	"		
			199																		IB ₇ -OUT ₇	"	"		
			200								IN ₇	IN ₈	"		OUT	OUT					IB ₈ -OUT ₈	"	"		
	t _{PHL}	3003 Fig. 4	201	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇		"							OUT	OUT	IB ₁ -OUT ₁	300	ns		
			202																OUT		IB ₂ -OUT ₂	"	"		
			203																		IB ₃ -OUT ₃	"	"		
			204																		IB ₄ -OUT ₄	"	"		
			205																		IB ₅ -OUT ₅	"	"		
			206																		IB ₆ -OUT ₆	"	"		
			207								IN ₇	IN ₈	"		OUT	OUT	OUT	OUT			IB ₇ -OUT ₇	"	"		
			208																		IB ₈ -OUT ₈	"	"		

NOTE: Pins not designated are open.

TABLE III. Group A inspection for device type 07.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max	
1 T _A = +25°C	I _C EX		1	IN1																			10.0	μA	
			2																					"	"
			3																					"	"
			4																					"	"
			5																					"	"
			6																					"	"
			7																					"	"
			8																					"	"
	V _{CE} (sat)	3007	9	500 μA																			1.6	V	
			10	500 μA																				"	"
			11																					"	"
			12																					"	"
			13																					"	"
			14																					"	"
			15																					"	"
			16																					"	"
	V _{CE} (sat)	3007	17	350 μA																			1.3	V	
			18	350 μA																				"	"
			19																					"	"
			20																					"	"
			21																					"	"
			22																					"	"
			23																					"	"
			24																					"	"
	V _{CE} (sat)	3007	25	250 μA																			1.1	V	
			26	250 μA																				"	"
			27																					"	"
			28																					"	"
			29																					"	"
			30																					"	"
			31																					"	"
			32																					"	"
	I _{IN} (on)		33	17 V																			575	μA	
			34	17 V																			"	"	
			35																					"	"
			36																					"	"
			37																					"	"
			38																					"	"
			39																					"	"
			40																					"	"

TABLE III. Group A inspection for device type 07 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18					
				IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁					
1 T _A = +25°C	I _{IN} (off)		41	25 μA		25 μA				0 V									50 V		50 V	OUT ₁		500	μA	
			42																						"	
			43																						"	
			44																						"	
			45																						"	
			46																						"	
			47																						"	
			48																						"	
	V _{IN} (on)		49	13 V						0 V												OUT ₁		2.0	V	
			50		13 V						"														"	
			51								"														"	
			52								"														"	
			53								"														"	
			54								"														"	
			55								"														"	
			56								"														"	
	I _R		57							0 V												COM		10.0	μA	
			58								"														"	
			59								"														"	
			60								"														"	
			61								"														"	
			62								"															"
			63								"															"
			64								"															"
	V _F		65																			OUT ₁		2.0	V	
			66																						"	
			67																						"	
			68																						"	
			69																						"	
			70																						"	
			71																						"	
			72																						"	
	h _{FE}	3003	73	IB ₁																		IB ₁ -OUT ₁		1000		
			74		IB ₂																				"	
			75																						"	
			76																						"	
			77																						"	
			78																						"	
			79																						"	
			80																						"	

TABLE III. Group A inspection for device type 07 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max			
2 T _A = +125°C	I _C EX		81	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			OUT ₁	μA		
			82										0 V												OUT ₂	"	
			83										"												OUT ₃	"	
			84										"												OUT ₄	"	
			85										"												OUT ₅	"	
			86										"												OUT ₆	"	
			87										"												OUT ₇	"	
			88										"												OUT ₈	"	
V _{CE} (sat)		3007	89	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA														OUT ₁	V		
			90										"												OUT ₂	"	
			91										"												OUT ₃	"	
			92										"												OUT ₄	"	
			93										"												OUT ₅	"	
			94										"													OUT ₆	"
			95										"												OUT ₇	"	
			96										"												OUT ₈	"	
V _{CE} (sat)		3007	97	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA														OUT ₁	V		
			98										"												OUT ₂	"	
			99										"												OUT ₃	"	
			100										"												OUT ₄	"	
			101										"												OUT ₅	"	
			102										"													OUT ₆	"
			103										"												OUT ₇	"	
			104										"												OUT ₈	"	
V _{CE} (sat)		3007	105	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA														OUT ₁	V		
			106										"												OUT ₂	"	
			107										"												OUT ₃	"	
			108										"												OUT ₄	"	
			109										"												OUT ₅	"	
			110										"												OUT ₆	"	
			111										"												OUT ₇	"	
			112										"												OUT ₈	"	
I _{IN} (on)			113	17 V	17 V	17 V	17 V	17 V	17 V	17 V	250 μA													IN ₁	μA		
			114										"												IN ₂	"	
			115										"												IN ₃	"	
			116										"												IN ₄	"	
			117										"												IN ₅	"	
			118										"												IN ₆	"	
			119										"												IN ₇	"	
			120										"												IN ₈	"	

TABLE III. Group A inspection for device type 07 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation														Measured terminal	Limits		Unit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16		17	18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
				IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅		OUT ₄	OUT ₃		OUT ₂	OUT ₁																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
2 T _A = +125°C	I _{IN} (off)		121	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	50 V	OUT ₁	50 V	50V	50 V	50 V	50 V	50 V	50 V	50 V	50 V	50 V	50 V	500	μA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
			122																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</

TABLE III. Group A inspection for device type 07 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max			
3 T _A = -55°C	I _{CEX}		161	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			OUT ₁	10.0	μA	
			162																								"
			163																								"
			164																								"
			165																								"
			166																								"
			167																								"
			168																								"
	V _{CE(sat)}	3007	169	850 μA	850 μA	850 μA	850 μA	850 μA	850 μA	850 μA	850 μA	850 μA	"												OUT ₁	1.8	V
			170																						OUT ₂	"	"
171																								OUT ₃	"	"	
172																								OUT ₄	"	"	
173																								OUT ₅	"	"	
174																								OUT ₆	"	"	
175																								OUT ₇	"	"	
176												850 μA												OUT ₈	"	"	
V _{CE(sat)}	3007	177	550 μA	550 μA	550 μA	550 μA	550 μA	550 μA	550 μA	550 μA	550 μA	"												OUT ₁	1.5	V	
		178																						OUT ₂	"	"	
		179																						OUT ₃	"	"	
		180																						OUT ₄	"	"	
		181																						OUT ₅	"	"	
		182																						OUT ₆	"	"	
		183																						OUT ₇	"	"	
		184										550 μA												OUT ₈	"	"	
V _{CE(sat)}	3007	185	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	"												OUT ₁	1.3	V	
		186																						OUT ₂	"	"	
		187																						OUT ₃	"	"	
		188																						OUT ₄	"	"	
		189																						OUT ₅	"	"	
		190																						OUT ₆	"	"	
		191																						OUT ₇	"	"	
		192										350 μA												OUT ₈	"	"	
I _{IN(on)}		193	17 V	17 V	17 V	17 V	17 V	17 V	17 V	17 V	17 V	"												IN ₁	575	μA	
		194																						IN ₂	"	"	
		195																						IN ₃	"	"	
		196																						IN ₄	"	"	
		197																						IN ₅	"	"	
		198																						IN ₆	"	"	
		199																						IN ₇	"	"	
		200										17 V													IN ₈	"	"

TABLE III. Group A inspection for device type 07 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max	
3 T _A = -55°C	I _{IN} (off)		201	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁		500	μA	
			202	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	0 V			50 V			50 V	50 V	50 V	50V	50 V		"	"
			203									"												"	"
			204									"												"	"
			205									"												"	"
			206									"												"	"
			207									"				50 V								"	"
			208								25 μA	25 μA	25 μA	25 μA	50 V									"	"
	V _{IN} (on)		209	18 V	18 V	18 V	18 V	18 V	18 V	18 V	18 V	0 V								300 mA	300 mA		2.0	V	
			210									"								300 mA			"	"	
			211									"											"	"	
			212									"								300 mA			"	"	
			213									"											"	"	
			214									"											"	"	
			215									"				300 mA							"	"	
			216								18 V	18 V	18 V	"		300 mA	300 mA						"	"	
	I _R		217									0 V	50 V						0 V	0 V	0 V		10.0	μA	
			218									"	"										"	"	
			219									"	"										"	"	
			220									"	"							0 V			"	"	
			221									"	"										"	"	
			222									"	"										"	"	
			223									"	"										"	"	
			224									"	"										"	"	
	V _F		225									"	0 V						350 mA	350 mA	350 mA		2.0	V	
			226									"	"										"	"	
			227									"	"							350 mA			"	"	
			228									"	"										"	"	
			229									"	"										"	"	
			230									"	"							350 mA			"	"	
			231									"	"										"	"	
			232									"	"			350 mA	350 mA						"	"	
	h _{FE}	3003	233	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇	IB ₈	"	0 V						350 mA	350 mA	350 mA	500			
			234									"	"									"	"		
			235									"	"									"	"		
			236									"	"									"	"		
			237									"	"									"	"		
			238									"	"									"	"		
			239									"	"									"	"		
			240									"	"			350 mA	350 mA						"	"	

TABLE III. Group A inspection for device type 07 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Limits		Unit			
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Measured terminal	Min		Max		
9 T _A = +25°C	t _{PLH}	3003 Fig. 4	241	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	IN ₁ -OUT ₁		750	ns		
			242	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	0 V									OUT				"	"	
			243																							"	"
			244																							"	"
			245																							"	"
			246																							"	"
			247																							"	"
			248																							"	"
	t _{PHL}	3003 Fig. 4	249	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	"									OUT				300	ns	
			250										"													"	"
			251										"													"	"
			252										"													"	"
			253										"													"	"
			254										"													"	"
			255										"													"	"
			256										"													"	"

NOTE: Pins not designated are open.

TABLE III. Group A inspection for device type 08.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max	
1 T _A = +25°C	I _C EX		1	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	OUT ₁		10.0	µA
			2									0 V						50 V		50 V		50 V		"	"
			3									"												"	"
			4									"												"	"
			5									"												"	"
			6									"												"	"
			7									"			50 V									"	"
			8									"										OUT ₈		"	"
	V _{CE} (sat)	3007	9	500 µA	500 µA	500 µA	500 µA	500 µA	500 µA	500 µA	500 µA	"									350 mA	OUT ₁		1.6	V
			10									"										OUT ₂		"	"
			11									"										OUT ₃		"	"
			12									"										OUT ₄		"	"
			13									"										OUT ₅		"	"
			14									"										OUT ₆		"	"
			15									"										OUT ₇		"	"
			16									"										OUT ₈		"	"
	V _{CE} (sat)	3007	17	350 µA	350 µA	350 µA	350 µA	350 µA	350 µA	350 µA	350 µA	"									200 mA	OUT ₁		1.3	V
			18									"										OUT ₂		"	"
			19									"										OUT ₃		"	"
			20									"										OUT ₄		"	"
			21									"										OUT ₅		"	"
			22									"										OUT ₆		"	"
			23									"										OUT ₇		"	"
			24									"										OUT ₈		"	"
	V _{CE} (sat)	3007	25	250 µA	250 µA	250 µA	250 µA	250 µA	250 µA	250 µA	250 µA	"									100 mA	OUT ₁		1.1	V
			26									"										OUT ₂		"	"
			27									"										OUT ₃		"	"
			28									"										OUT ₄		"	"
			29									"										OUT ₅		"	"
			30									"										OUT ₆		"	"
			31									"										OUT ₇		"	"
			32									"										OUT ₈		"	"
	I _{IN} (on)		33	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	"										IN ₁	650	1350	µA
			34									"										IN ₂	"	"	"
			35									"										IN ₃	"	"	"
			36									"										IN ₄	"	"	"
			37									"										IN ₅	"	"	"
			38									"										IN ₆	"	"	"
			39									"										IN ₇	"	"	"
			40									"										IN ₈	"	"	"

TABLE III. Group A inspection for device type 08 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max		
1 T _A = +25°C	I _{IN} (off)		41	IN ₁	25 μA																			500	μA	
			42		25 μA																					"
			43			25 μA																				"
			44				25 μA																			"
			45					25 μA																		"
			46						25 μA																	"
			47							25 μA																"
			48								25 μA															"
	V _{IN} (on)		49	2.0 V																					2.0	V
			50		2.0 V																				"	
			51			2.0 V																				"
			52				2.0 V																			"
			53					2.0 V																		"
			54						2.0 V																	"
			55							2.0 V																"
			56								2.0 V															"
	V _{IN} (on)		57	2.2 V																					2.0	V
			58		2.2 V																				"	
			59			2.2 V																			"	
			60				2.2 V																		"	
			61					2.2 V																	"	
			62						2.2 V																"	
			63							2.2 V															"	
			64								2.2 V														"	
	V _{IN} (on)		65	2.4 V																					2.0	V
			66		2.4 V																				"	
			67			2.4 V																			"	
			68				2.4 V																		"	
			69					2.4 V																	"	
			70						2.4 V																"	
			71							2.4 V															"	
			72								2.4 V														"	
	I _r		73																						10.0	μA
			74																					"		
			75																					"		
			76																					"		
			77																					"		
			78																					"		
			79																					"		
			80																					"		

TABLE III. Group A inspection for device type 08 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max	
1 T _A = +25°C	V _F		81	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁		2.0	V	
			82																	350 mA				"	
			83																	350 mA				"	
			84																	350 mA				"	
			85																	350 mA				"	
			86																	350 mA				"	
			87																	350 mA				"	
			88																	350 mA				"	
			89	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇	IB ₈										350 mA				
			90																	350 mA					
2 T _A = +125°C	I _{CEX}		91																350 mA						
			92																350 mA						
			93																350 mA						
			94																350 mA						
			95																350 mA						
			96																350 mA						
			97																50 V						
			98																50 V						
			99																50 V						
			100																50 V						
3 T _A = +125°C	V _{CE(sat)}		101																50 V						
			102																50 V						
			103																50 V						
			104																50 V						
			105	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA									350 mA					
			106																	350 mA					
			107																	350 mA					
			108																	350 mA					
			109																	350 mA					
			110																	350 mA					
4 T _A = +125°C	V _{CE(sat)}		111																350 mA						
			112																350 mA						
			113	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA									200 mA					
			114																	200 mA					
			115																	200 mA					
			116																	200 mA					
			117																	200 mA					
			118																	200 mA					
			119																	200 mA					
			120																	200 mA					

TABLE III. Group A inspection for device type 08 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max	
2 T _A = +125°C	V _{CE(sat)}	3007	121	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			1.3	V
			122	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	0 V						100 mA	100 mA					"
			123										"												"
			124										"												"
			125										"												"
			126										"												"
			127										"			100 mA									"
			128										"		100 mA										"
	I _{IN(on)}		129	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	3.85 V	"											650	1350	μA
			130										"											"	"
			131										"											"	"
			132										"											"	"
			133										"											"	"
			134										"											"	"
			135										"											"	"
			136										"											"	"
	I _{IN(off)}		137	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	"								50V	50 V	50 V		500	μA
			138										"												"
			139										"												"
			140										"												"
			141										"												"
			142										"												"
			143										"												"
			144										"		50 V										"
	V _{IN(on)}		145	2.0 V	2.0 V	2.0 V	2.0 V	2.0 V	2.0 V	2.0 V	2.0 V	0 V								200 mA	200 mA	200 mA		2.0	V
			146										"												"
			147										"												"
			148										"												"
			149										"												"
			150										"												"
			151										"												"
			152										"		200 mA										"
	V _{IN(on)}		153	2.2 V	2.2 V	2.2 V	2.2 V	2.2 V	2.2 V	2.2 V	0 V									250 mA	250 mA	250 mA		2.0	V
			154									"													"
			155									"													"
			156									"													"
			157									"													"
			158									"													"
			159									"													"
			160									"			250 mA										"

TABLE III. Group A inspection for device type 08 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation														Measured terminal	Limits		Unit					
				1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16		17	18	Min	Max	
2 T _A = +125°C	V _{IN(on)}		161	IN ₁	2.4 V																		2.0	V		
			162		2.4 V																			"	"	
			163			2.4 V																			"	"
			164				2.4 V																		"	"
			165					2.4 V																	"	"
			166						2.4 V																"	"
			167							2.4 V															"	"
			168								2.4 V														"	"
	I _R		169																				10.0	μA		
			170																				"	"		
			171																				"	"		
			172																				"	"		
			173																				"	"		
			174																				"	"		
			175																				"	"		
			176																				"	"		
	V _F		177																				2.0	V		
			178																				"	"		
			179																				"	"		
			180																				"	"		
			181																				"	"		
			182																				"	"		
			183																				"	"		
			184																				"	"		
	h _{FE}	3003	185	IB ₁																			1000			
			186		IB ₂																		"			
			187																				"			
			188																				"			
			189																				"			
			190																				"			
			191																				"			
			192																				"			

TABLE III. Group A inspection for device type 08 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
				IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁				
3 T _A = -55°C	I _{CEX}		193																		50 V	OUT ₁	10.0	μA	
			194																			50 V	OUT ₂	"	"
			195																				OUT ₃	"	"
			196																				OUT ₄	"	"
			197																				OUT ₅	"	"
			198																				OUT ₆	"	"
			199																				OUT ₇	"	"
			200																				OUT ₈	"	"
V _{CE(sat)}	3007	201	850 μA																		350 mA	OUT ₁	1.8	V	
		202	850 μA																		350 mA	OUT ₂	"	"	
		203	850 μA																		350 mA	OUT ₃	"	"	
		204	850 μA																		350 mA	OUT ₄	"	"	
		205	850 μA																		350 mA	OUT ₅	"	"	
		206	850 μA																		350 mA	OUT ₆	"	"	
		207	850 μA																		350 mA	OUT ₇	"	"	
		208	850 μA																		350 mA	OUT ₈	"	"	
V _{CE(sat)}	3007	209	550 μA																		200 mA	OUT ₁	1.5	V	
		210	550 μA																		200 mA	OUT ₂	"	"	
		211	550 μA																		200 mA	OUT ₃	"	"	
		212	550 μA																		200 mA	OUT ₄	"	"	
		213	550 μA																		200 mA	OUT ₅	"	"	
		214	550 μA																		200 mA	OUT ₆	"	"	
		215	550 μA																		200 mA	OUT ₇	"	"	
		216	550 μA																		200 mA	OUT ₈	"	"	
V _{CE(sat)}	3007	217	350 μA																		100 mA	OUT ₁	1.3	V	
		218	350 μA																		100 mA	OUT ₂	"	"	
		219	350 μA																		100 mA	OUT ₃	"	"	
		220	350 μA																		100 mA	OUT ₄	"	"	
		221	350 μA																		100 mA	OUT ₅	"	"	
		222	350 μA																		100 mA	OUT ₆	"	"	
		223	350 μA																		100 mA	OUT ₇	"	"	
		224	350 μA																		100 mA	OUT ₈	"	"	
I _{IN(on)}		225	3.85 V																			IN ₁	650	μA	
		226	3.85 V																			IN ₂	"	"	
		227	3.85 V																			IN ₃	"	"	
		228	3.85 V																			IN ₄	"	"	
		229	3.85 V																			IN ₅	"	"	
		230	3.85 V																			IN ₆	"	"	
		231	3.85 V																			IN ₇	"	"	
		232	3.85 V																			IN ₈	"	"	

TABLE III. Group A inspection for device type 08 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation														Measured terminal	Limits		Unit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16		17	18	Min	Max																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
3 T _A = -55°C	I _{IN} (off)		233	IN ₁	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA

TABLE III. Group A inspection for device type 08 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max			
3 T _A = -55°C	V _F		273	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	OUT ₁		2.0	V		
			274									0 V									350 mA				"	"	
			275									"	"												"	"	
			276									"	"												"	"	
			277									"	"												"	"	
			278									"	"												"	"	
			279									"	"												"	"	
			280									"	"			350 mA									"	"	
			281	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇	IB ₈												350 mA	IB ₁ -OUT ₁	500		
			282										"	"										IB ₂ -OUT ₂	"		
9 T _A = +25°C	t _{PLH}	3003 Fig. 4	283																			IB ₃ -OUT ₃	"				
			284																				IB ₄ -OUT ₄	"			
			285																				IB ₅ -OUT ₅	"			
			286																				IB ₆ -OUT ₆	"			
			287																				IB ₇ -OUT ₇	"			
			288													350 mA								IB ₈ -OUT ₈	"		
			289	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈												OUT	IN ₁ -OUT ₁	750	ns	
			290										"	"									OUT	IN ₂ -OUT ₂	"	"	
			291										"	"										IN ₃ -OUT ₃	"	"	
			292										"	"										IN ₄ -OUT ₄	"	"	
9 T _A = +25°C	t _{PHL}	3003 Fig. 4	293																			IN ₅ -OUT ₅	"	"			
			294																				IN ₆ -OUT ₆	"	"		
			295																				IN ₇ -OUT ₇	"	"		
			296																				IN ₈ -OUT ₈	"	"		
			297	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈					OUT							OUT	IN ₁ -OUT ₁	300	ns	
			298										"	"										IN ₂ -OUT ₂	"	"	
			299										"	"										IN ₃ -OUT ₃	"	"	
			300										"	"										IN ₄ -OUT ₄	"	"	
301										"	"										IN ₅ -OUT ₅	"	"				
302										"	"										IN ₆ -OUT ₆	"	"				
303										"	"										IN ₇ -OUT ₇	"	"				
304										"	"										IN ₈ -OUT ₈	"	"				

NOTE: Pins not designated are open.

TABLE III. Group A inspection for device type 09.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max	
1 T _A = +25°C	I _C EX		1	IN1	IN2	IN3	IN4	IN5	IN6	IN7	IN8	GND	COM	OUT8	OUT7	OUT6	OUT5	OUT4	OUT3	OUT2	OUT1			10.0	μA
			2																						"
			3																						"
			4																						"
			5																						"
			6																						"
			7													50 V									"
			8												50 V										"
V _{CE} (sat)		3007	9	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA															1.6	V
			10																						"
			11																						"
			12																						"
			13																						"
			14																						"
			15																						"
			16																						"
V _{CE} (sat)		3007	17	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA															1.3	V
			18																						"
			19																						"
			20																						"
			21																						"
			22																						"
			23																						"
			24																						"
V _{CE} (sat)		3007	25	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA															1.1	V
			26																						"
			27																						"
			28																						"
			29																						"
			30																						"
			31																						"
			32																						"
I _{IN} (on)			33	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V															500	μA
			34																						"
			35																						"
			36																						"
			37																						"
			38																						"
			39																						"
			40																						"

TABLE III. Group A inspection for device type 09 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max	
1 T _A = +25°C	I _{IN} (on)		41	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	IN ₁	IN ₂	μA	
			42	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V	0 V											IN ₃	IN ₄	"
			43									"											IN ₅	IN ₆	"
			44									"											IN ₇	IN ₈	"
			45									"													"
			46									"													"
			47									"													"
			48								12 V	12 V	12 V	"											
	I _{IN} (off)		49	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	"									50 V	50 V	OUT ₁	OUT ₂	μA
			50																				OUT ₃	OUT ₄	"
			51																				OUT ₅	OUT ₆	"
			52																				OUT ₇	OUT ₈	"
			53																						"
			54																						"
			55																						"
			56								25 μA	25 μA	25 μA	"											
	V _{IN} (on)		57	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	0 V									125 mA	125 mA	OUT ₁	OUT ₂	V
			58																				OUT ₃	OUT ₄	"
			59																				OUT ₅	OUT ₆	"
			60																				OUT ₇	OUT ₈	"
			61																						"
			62																						"
			63																						"
			64								5.0 V	5.0 V	5.0 V	"											
	V _{IN} (on)		65	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	0 V									200 mA	200 mA	OUT ₁	OUT ₂	V
			66																				OUT ₃	OUT ₄	"
			67																				OUT ₅	OUT ₆	"
			68																				OUT ₇	OUT ₈	"
			69																						"
			70																						"
			71																						"
			72								6.0 V	6.0 V	6.0 V	"											
	V _{IN} (on)		73	7.0 V	7.0 V	7.0 V	7.0 V	7.0 V	7.0 V	7.0 V	7.0 V	0 V									275 mA	275 mA	OUT ₁	OUT ₂	V
			74																				OUT ₃	OUT ₄	"
			75																				OUT ₅	OUT ₆	"
			76																				OUT ₇	OUT ₈	"
			77																						"
			78																						"
			79																						"
			80								7.0 V	7.0 V	7.0 V	"											

TABLE III. Group A inspection for device type 09 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation														Measured terminal	Limits		Unit						
				1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16		17	18	Min	Max		
1 T _A = +25°C	V _{IN(on)}		81	IN ₁	8.0 V																			OUT ₁	2.0	V	
			82		8.0 V																				OUT ₂	"	"
			83																						OUT ₃	"	"
			84																						OUT ₄	"	"
			85																						OUT ₅	"	"
			86																						OUT ₆	"	"
			87																						OUT ₇	"	"
			88																						OUT ₈	"	"
	I _R		89																						COM	10.0	μA
			90																						COM	"	"
			91																						COM	"	"
			92																						COM	"	"
			93																						COM	"	"
			94																						COM	"	"
			95																						COM	"	"
			96																						COM	"	"
V _F		97																						OUT ₁	2.0	V	
		98																						OUT ₂	"	"	
		99																						OUT ₃	"	"	
		100																						OUT ₄	"	"	
		101																						OUT ₅	"	"	
		102																						OUT ₆	"	"	
		103																						OUT ₇	"	"	
		104																						OUT ₈	"	"	
h _{FE}	3003	105	IB ₁																					IB ₁ -OUT ₁	1000		
		106		IB ₂																				IB ₂ -OUT ₂	"		
		107																						IB ₃ -OUT ₃	"		
		108																						IB ₄ -OUT ₄	"		
		109																						IB ₅ -OUT ₅	"		
		110																						IB ₆ -OUT ₆	"		
		111																						IB ₇ -OUT ₇	"		
		112																						IB ₈ -OUT ₈	"		
I _{CEX}		113																						OUT ₁	10.0	μA	
		114																						OUT ₂	"	"	
		115																						OUT ₃	"	"	
		116																						OUT ₄	"	"	
		117																						OUT ₅	"	"	
		118																						OUT ₆	"	"	
		119																						OUT ₇	"	"	
		120																						OUT ₈	"	"	

TABLE III. Group A inspection for device type 09 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max		
2 T _A = +125°C	V _{CE(sat)}	3007	121	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			1.8	V	
			122	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	0 V						350 mA	350 mA	350 mA	350 mA			"	"	
			123									"													"	"
			124									"													"	"
			125									"													"	"
			126									"													"	"
			127									"				350 mA									"	"
			128									"			350 mA										"	"
	V _{CE(sat)}	3007	129	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	500 μA													1.5	V
			130																						"	"
			131																						"	"
			132																						"	"
			133																						"	"
			134																						"	"
			135																						"	"
			136										350 μA												"	"
	V _{CE(sat)}	3007	137	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA													1.3	V
			138																						"	"
			139																						"	"
			140																						"	"
			141																						"	"
			142																						"	"
			143																						"	"
			144									250 μA	250 μA												"	"
I _{IN(on)}		145	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V													500	μA	
		146																						"	"	
		147																						"	"	
		148																						"	"	
		149																						"	"	
		150																						"	"	
		151																						"	"	
		152									5.0 V	5.0 V												"	"	
I _{IN(on)}		153	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V													1450	μA	
		154																						"	"	
		155																						"	"	
		156																						"	"	
		157																						"	"	
		158																						"	"	
		159																						"	"	
		160										12 V												"	"	

TABLE III. Group A inspection for device type 09 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
				IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁				
2 T _A = +125°C	I _{IN} (off)		161	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	0 V			50 V	50 V	50 V	50 V	50 V	50V	50 V	OUT ₁	500	μA		
			162								"										OUT ₂	"	"		
			163								"										OUT ₃	"	"		
			164								"										OUT ₄	"	"		
			165								"										OUT ₅	"	"		
			166								"										OUT ₆	"	"		
			167								"										OUT ₇	"	"		
			168							25 μA	25 μA	"		50 V	50 V						OUT ₈	"	"		
	V _{IN} (on)		169	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	0 V										OUT ₁	2.0	V		
			170								"										OUT ₂	"	"		
			171								"										OUT ₃	"	"		
			172								"										OUT ₄	"	"		
			173								"										OUT ₅	"	"		
			174								"										OUT ₆	"	"		
			175								"										OUT ₇	"	"		
			176							5.0 V	5.0 V	"		125 mA	125 mA						OUT ₈	"	"		
	V _{IN} (on)		177	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	0 V										OUT ₁	2.0	V		
			178								"										OUT ₂	"	"		
			179								"										OUT ₃	"	"		
			180								"										OUT ₄	"	"		
			181								"										OUT ₅	"	"		
			182								"										OUT ₆	"	"		
			183								"										OUT ₇	"	"		
			184							6.0 V	6.0 V	"		200 mA	200 mA						OUT ₈	"	"		
	V _{IN} (on)		185	7.0 V	7.0 V	7.0 V	7.0 V	7.0 V	7.0 V	7.0 V	0 V										OUT ₁	2.0	V		
			186								"										OUT ₂	"	"		
			187								"										OUT ₃	"	"		
			188								"										OUT ₄	"	"		
			189								"										OUT ₅	"	"		
			190								"										OUT ₆	"	"		
			191								"										OUT ₇	"	"		
			192							7.0 V	7.0 V	"		275 mA	275 mA						OUT ₈	"	"		
	V _{IN} (on)		193	8.0 V	8.0 V	8.0 V	8.0 V	8.0 V	8.0 V	8.0 V	0 V										OUT ₁	2.0	V		
			194								"										OUT ₂	"	"		
			195								"										OUT ₃	"	"		
			196								"										OUT ₄	"	"		
			197								"										OUT ₅	"	"		
			198								"										OUT ₆	"	"		
			199								"										OUT ₇	"	"		
			200							8.0 V	8.0 V	"		350 mA	350 mA						OUT ₈	"	"		

TABLE III. Group A inspection for device type 09 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max	
2 T _A = +125°C	I _R		201	IN ₁							COM	OUT ₈					0 V			0 V			10.0	μA	
			202									"	"											"	
			203									"	"											"	
			204									"	"											"	
			205									"	"											"	
			206									"	"											"	
			207									"	"											"	
			208									"	"	0 V										"	
	V _F		209									0 V												2.0	V
			210									"	"											"	
211											"	"											"		
212											"	"											"		
213											"	"											"		
214											"	"											"		
215											"	"											"		
216											"	"	350 mA										"		
3 T _A = -55°C	h _{FE}	3003	217	IB ₁																					
			218																						
			219		IB ₂																				
			220			IB ₃																			
			221				IB ₄																		
			222					IB ₅																	
			223						IB ₆																
			224							IB ₇															
	I _C EX		225																						
			226																						
227																									
228																									
229																									
230																									
231																									
232													50 V												
V _{CE(sat)}	3007	233	850 μA																						
		234		850 μA																					
		235			850 μA																				
		236				850 μA																			
		237					850 μA																		
		238						850 μA																	
		239							850 μA																
		240								850 μA															

TABLE III. Group A inspection for device type 09 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max		
3 T _A = -55°C	V _{CE(sat)}	3007	241	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			1.5	V	
			242	550 μA	550 μA	550 μA	550 μA	550 μA	550 μA	550 μA	550 μA	0 V									200 mA	200 mA			"	"
			243									"									200 mA	200 mA			"	"
			244									"									200 mA	200 mA			"	"
			245									"									200 mA	200 mA			"	"
			246									"									200 mA	200 mA			"	"
			247									"									200 mA	200 mA			"	"
			248									"									200 mA	200 mA			"	"
	V _{CE(sat)}	3007	249	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA									100 mA	100 mA			1.3	V	
			250																	100 mA	100 mA			"	"	
			251																	100 mA	100 mA			"	"	
			252																	100 mA	100 mA			"	"	
			253																	100 mA	100 mA			"	"	
			254																	100 mA	100 mA			"	"	
			255																	100 mA	100 mA			"	"	
			256																	100 mA	100 mA			"	"	
I _{IN(on)}		257	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V	5.0 V												250	500	μA		
		258																				"	"	"		
		259																				"	"	"		
		260																				"	"	"		
		261																				"	"	"		
		262																				"	"	"		
		263																				"	"	"		
		264																				"	"	"		
I _{IN(on)}		265	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V												750	1450	μA		
		266																				"	"	"		
		267																				"	"	"		
		268																				"	"	"		
		269																				"	"	"		
		270																				"	"	"		
		271																				"	"	"		
		272																				"	"	"		
I _{IN(off)}		273	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA												500	500	μA		
		274																				"	"	"		
		275																				"	"	"		
		276																				"	"	"		
		277																				"	"	"		
		278																				"	"	"		
		279																				"	"	"		
		280																				"	"	"		

TABLE III. Group A inspection for device type 09 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max		
3 T _A = -55°C	V _{IN(on)}		281	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			OUT ₁	V	
			282	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	6.0 V	0 V					125 mA	125 mA	125 mA	125 mA	125 mA			OUT ₂	"	
			283									"					125 mA	125 mA	125 mA	125 mA	125 mA			OUT ₃	"	
			284									"					125 mA	125 mA	125 mA	125 mA	125 mA			OUT ₄	"	
			285									"					125 mA	125 mA	125 mA	125 mA	125 mA			OUT ₅	"	
			286									"					125 mA	125 mA	125 mA	125 mA	125 mA			OUT ₆	"	
			287									"				125 mA								OUT ₇	"	
			288								6.0 V	6.0 V	6.0 V			125 mA								OUT ₈	"	
	V _{IN(on)}		289	8.0 V	8.0 V	8.0 V	8.0 V	8.0 V	8.0 V	8.0 V	8.0 V	0 V					200 mA	200 mA	200 mA	200 mA	200 mA			OUT ₁	V	
			290										"											OUT ₂	"	
			291										"											OUT ₃	"	
			292										"											OUT ₄	"	
			293										"											OUT ₅	"	
			294										"											OUT ₆	"	
			295										"											OUT ₇	"	
			296								8.0 V	8.0 V	8.0 V			200 mA									OUT ₈	"
	V _{IN(on)}		297	10.0 V	10.0 V	10.0 V	10.0 V	10.0 V	10.0 V	10.0 V	10.0 V	0 V					275 mA	275 mA	275 mA	275 mA	275 mA			OUT ₁	V	
			298										"											OUT ₂	"	
			299										"											OUT ₃	"	
			300										"											OUT ₄	"	
			301										"											OUT ₅	"	
			302										"											OUT ₆	"	
			303										"											OUT ₇	"	
			304								10.0 V	10.0 V	10.0 V			275 mA									OUT ₈	"
	V _{IN(on)}		305	12.0 V	12.0 V	12.0 V	12.0 V	12.0 V	12.0 V	12.0 V	12.0 V	0 V					350 mA	350 mA	350 mA	350 mA	350 mA			OUT ₁	V	
			306										"											OUT ₂	"	
			307										"											OUT ₃	"	
			308										"											OUT ₄	"	
			309										"											OUT ₅	"	
			310										"											OUT ₆	"	
			311										"											OUT ₇	"	
			312								12.0 V	12.0 V	12.0 V			350 mA									OUT ₈	"
	I _R		313									0 V	50 V								0 V			COM	μA	
			314									"	"								0 V			COM	"	
			315									"	"											COM	"	
			316									"	"											COM	"	
			317									"	"											COM	"	
			318									"	"												COM	"
			319									"	"												COM	"
			320									"	"												COM	"

TABLE III. Group A inspection for device type 09 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max																
3 T _A = -55°C	V _F		321	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	0 V	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁	350 mA	OUT ₁	OUT ₂	OUT ₃	OUT ₄	OUT ₅	OUT ₆	OUT ₇	OUT ₈			2.0	V					
			322										"	"	"	"	"	"	350 mA					350 mA										"	"					
			323										"	"	"	"	"	"	350 mA					350 mA											"	"				
			324										"	"	"	"	"	"	350 mA					350 mA											"	"				
			325										"	"	"	"	"	"	350 mA					350 mA											"	"				
			326										"	"	"	"	"	"	350 mA					350 mA											"	"				
			327										"	"	"	"	"	"	350 mA					350 mA											"	"				
			328										"	"	"	"	"	"	350 mA					350 mA												"	"			
9 T _A = +25°C	h _{FE}	3003	329	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇	IB ₈	"	"	"	"	"	"	350 mA					350 mA		IB ₁ -OUT ₁	IB ₂ -OUT ₂	IB ₃ -OUT ₃	IB ₄ -OUT ₄	IB ₅ -OUT ₅	IB ₆ -OUT ₆	IB ₇ -OUT ₇	IB ₈ -OUT ₈	500							
			330										"	"	"	"	"	"	350 mA					350 mA																
			331										"	"	"	"	"	"	350 mA					350 mA																
			332										"	"	"	"	"	"	350 mA					350 mA																
			333										"	"	"	"	"	"	350 mA					350 mA																
			334										"	"	"	"	"	"	350 mA					350 mA																
			335										"	"	"	"	"	"	350 mA					350 mA																
			336										"	"	"	"	"	"	350 mA					350 mA																
9 T _A = +25°C	t _{PLH}	3003 Fig. 4	337	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	"	"	"	"	"	"					OUT		OUT	IN ₁ -OUT ₁	IN ₂ -OUT ₂	IN ₃ -OUT ₃	IN ₄ -OUT ₄	IN ₅ -OUT ₅	IN ₆ -OUT ₆	IN ₇ -OUT ₇	IN ₈ -OUT ₈	750							ns
			338										"	"	"	"	"	"					OUT			IN ₂ -OUT ₂	IN ₃ -OUT ₃	IN ₄ -OUT ₄	IN ₅ -OUT ₅	IN ₆ -OUT ₆	IN ₇ -OUT ₇	IN ₈ -OUT ₈								"
			339										"	"	"	"	"	"					OUT			IN ₃ -OUT ₃	IN ₄ -OUT ₄	IN ₅ -OUT ₅	IN ₆ -OUT ₆	IN ₇ -OUT ₇	IN ₈ -OUT ₈								"	
			340										"	"	"	"	"	"					OUT			IN ₄ -OUT ₄	IN ₅ -OUT ₅	IN ₆ -OUT ₆	IN ₇ -OUT ₇	IN ₈ -OUT ₈								"		
			341										"	"	"	"	"	"					OUT			IN ₅ -OUT ₅	IN ₆ -OUT ₆	IN ₇ -OUT ₇	IN ₈ -OUT ₈								"			
			342										"	"	"	"	"	"					OUT			IN ₆ -OUT ₆	IN ₇ -OUT ₇	IN ₈ -OUT ₈								"				
			343										"	"	"	"	"	"					OUT			IN ₇ -OUT ₇	IN ₈ -OUT ₈								"					
			344										IN ₈	"	"	"	"	"	OUT								IN ₈ -OUT ₈											"		
9 T _A = +25°C	t _{PHL}	3003 Fig. 4	345	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	"	"	"	"	"	"					OUT		OUT	IN ₁ -OUT ₁	IN ₂ -OUT ₂	IN ₃ -OUT ₃	IN ₄ -OUT ₄	IN ₅ -OUT ₅	IN ₆ -OUT ₆	IN ₇ -OUT ₇	IN ₈ -OUT ₈	300							ns
			346										"	"	"	"	"	"					OUT			IN ₂ -OUT ₂	IN ₃ -OUT ₃	IN ₄ -OUT ₄	IN ₅ -OUT ₅	IN ₆ -OUT ₆	IN ₇ -OUT ₇	IN ₈ -OUT ₈								"
			347										"	"	"	"	"	"					OUT			IN ₃ -OUT ₃	IN ₄ -OUT ₄	IN ₅ -OUT ₅	IN ₆ -OUT ₆	IN ₇ -OUT ₇	IN ₈ -OUT ₈								"	
			348										"	"	"	"	"	"					OUT			IN ₄ -OUT ₄	IN ₅ -OUT ₅	IN ₆ -OUT ₆	IN ₇ -OUT ₇	IN ₈ -OUT ₈								"		
			349										"	"	"	"	"	"					OUT			IN ₅ -OUT ₅	IN ₆ -OUT ₆	IN ₇ -OUT ₇	IN ₈ -OUT ₈								"			
			350										"	"	"	"	"	"					OUT			IN ₆ -OUT ₆	IN ₇ -OUT ₇	IN ₈ -OUT ₈								"				
			351										"	"	"	"	"	"					OUT			IN ₇ -OUT ₇	IN ₈ -OUT ₈								"					
			352										IN ₈	"	"	"	"	"	OUT								IN ₈ -OUT ₈											"		

NOTE: Pins not designated are open.

TABLE III. Group A inspection for device type 10.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max	
1 T _A = +25°C	I _{CEX}		1	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			10.0	μA
			2																				50 V		"
			3																						"
			4																						"
			5																						"
			6																						"
			7													50 V									"
			8												50 V										"
V _{CE(sat)}		3007	9	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA	500 μA												350 mA		1.6	V
			10																				350 mA		"
			11																						"
			12																						"
			13																						"
			14																						"
			15																						"
			16									500 μA													"
V _{CE(sat)}		3007	17	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA												200 mA		1.3	V
			18																				200 mA		"
			19																						"
			20																						"
			21																						"
			22																						"
			23																						"
			24									350 μA													"
V _{CE(sat)}		3007	25	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA	250 μA												100 mA		1.1	V
			26																				100 mA		"
			27																						"
			28																						"
			29																						"
			30																						"
			31																						"
			32									250 μA													"
I _{IN(on)}			33	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	250 μA												1180	2400	μA
			34																						"
			35																						"
			36																						"
			37																						"
			38																						"
			39																						"
			40									3.0 V													"

TABLE III. Group A inspection for device type 10 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit							
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18											
				IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁											
1 T _A = +25°C	I _{IN} (off)		41	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	0 V				50 V	50 V	50 V	50 V	50 V	50 V	50 V	50 V	OUT ₁	OUT ₂	OUT ₃	OUT ₄	OUT ₅	OUT ₆	OUT ₇	OUT ₈	500	μA	
			42							"												OUT ₁								"		
			43							"												OUT ₂								"		
			44							"												OUT ₃								"		
			45							"												OUT ₄								"		
			46							"												OUT ₅								"		
			47							"												OUT ₆								"		
			48							"					50 V							OUT ₇								"		
	V _{IN} (on)		49	2.4 V	2.4 V	2.4 V	2.4 V	2.4 V	2.4 V	"											350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	2.0	V	
			50							"											OUT ₁	OUT ₂	OUT ₃	OUT ₄	OUT ₅	OUT ₆	OUT ₇	OUT ₈	"	"		
			51							"												OUT ₂								"		
			52							"												OUT ₃								"		
			53							"												OUT ₄								"		
			54							"												OUT ₅								"		
			55							"												OUT ₆								"		
			56							"				350 mA								OUT ₇								"		
			57							0 V	50 V											0 V	0 V	0 V	0 V	0 V	0 V	0 V	0 V	0 V	10.0	μA
	I _R		58						"	"	"	"	"	"	"	"	"	"	"	"	"		COM	COM	COM	COM	COM	COM	COM	COM	"	"
			59						"	"	"	"	"	"	"	"	"	"	"	"	"		COM								"	"
			60						"	"	"	"	"	"	"	"	"	"	"	"	"		COM								"	"
			61						"	"	"	"	"	"	"	"	"	"	"	"	"		COM								"	"
			62						"	"	"	"	"	"	"	"	"	"	"	"	"		COM								"	"
			63						"	"	"	"	"	"	"	"	"	"	"	"	"		COM								"	"
			64						"	"	"	"	"	"	"	"	"	"	"	"	"		COM								"	"
	V _F		65						"	0 V	0 V											350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	2.0	V
			66						"	"	"	"	"	"	"	"	"	"	"	"	"		OUT ₁	OUT ₂	OUT ₃	OUT ₄	OUT ₅	OUT ₆	OUT ₇	OUT ₈	"	"
			67						"	"	"	"	"	"	"	"	"	"	"	"	"		OUT ₂								"	"
			68						"	"	"	"	"	"	"	"	"	"	"	"	"		OUT ₃								"	"
			69						"	"	"	"	"	"	"	"	"	"	"	"	"		OUT ₄								"	"
			70						"	"	"	"	"	"	"	"	"	"	"	"	"		OUT ₅								"	"
			71						"	"	"	"	"	"	"	"	"	"	"	"	"		OUT ₆								"	"
			72						"	"	"	"	"	"	"	"	"	"	"	"	"		OUT ₇								"	"
			73	IB ₁					"													350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	350 mA	1000	
	h _{FE}	3003	74						"	"	"	"	"	"	"	"	"	"	"	"	"		IB ₁ -OUT ₁	IB ₂ -OUT ₂	IB ₃ -OUT ₃	IB ₄ -OUT ₄	IB ₅ -OUT ₅	IB ₆ -OUT ₆	IB ₇ -OUT ₇	IB ₈ -OUT ₈	"	
			75						"	"	"	"	"	"	"	"	"	"	"	"	"										"	
			76						"	"	"	"	"	"	"	"	"	"	"	"	"										"	
			77						"	"	"	"	"	"	"	"	"	"	"	"	"										"	
			78						"	"	"	"	"	"	"	"	"	"	"	"	"										"	
			79						"	"	"	"	"	"	"	"	"	"	"	"	"										"	
			80						"	"	"	"	"	"	"	"	"	"	"	"	"										"	

TABLE III. Group A inspection for device type 10 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max			
2 T _A = +125°C	I _C EX		81	IN ₁																				OUT ₁	10.0	μA	
			82																						OUT ₂	"	"
			83																						OUT ₃	"	"
			84																						OUT ₄	"	"
			85																						OUT ₅	"	"
			86																						OUT ₆	"	"
			87																						OUT ₇	"	"
			88											50 V											OUT ₈	"	"
V _{CE} (sat)		3007	89	500 μA																				OUT ₁	1.8	V	
			90		500 μA																				OUT ₂	"	"
			91																						OUT ₃	"	"
			92																						OUT ₄	"	"
			93																						OUT ₅	"	"
			94																						OUT ₆	"	"
			95																						OUT ₇	"	"
			96											350 mA											OUT ₈	"	"
V _{CE} (sat)		3007	97	350 μA																				OUT ₁	1.5	V	
			98		350 μA																				OUT ₂	"	"
			99																						OUT ₃	"	"
			100																						OUT ₄	"	"
			101																						OUT ₅	"	"
			102																						OUT ₆	"	"
			103																						OUT ₇	"	"
			104											200 mA											OUT ₈	"	"
V _{CE} (sat)		3007	105	250 μA																				OUT ₁	1.3	V	
			106		250 μA																				OUT ₂	"	"
			107																						OUT ₃	"	"
			108																						OUT ₄	"	"
			109																						OUT ₅	"	"
			110																						OUT ₆	"	"
			111																						OUT ₇	"	"
			112											100 mA											OUT ₈	"	"
I _{IN} (on)			113	3.0 V																				IN ₁	1180	μA	
			114		3.0 V																				IN ₂	"	"
			115																						IN ₃	"	"
			116																						IN ₄	"	"
			117																						IN ₅	"	"
			118																						IN ₆	"	"
			119																						IN ₇	"	"
			120																						IN ₈	"	"

TABLE III. Group A inspection for device type 10 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit				
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max					
2 T _A = +125°C	I _{IN} (off)		121	IN ₁	25 μA																			500	μA				
			122		25 μA																				"	"			
			123			25 μA																				"	"		
			124				25 μA																				"	"	
			125					25 μA																			"	"	
			126						25 μA																			"	"
			127							25 μA																		"	"
			128								25 μA																	"	"
	V _{IN} (on)		129	2.4 V	2.4 V																				2.0	V			
			130																							"	"		
			131																								"	"	
			132																								"	"	
			133																								"	"	
			134																									"	"
			135																									"	"
			136																								"	"	
	I _R		137																						10.0	μA			
			138																							"	"		
			139																								"	"	
			140																								"	"	
			141																								"	"	
			142																								"	"	
			143																								"	"	
			144																								"	"	
	V _F		145																						2.0	V			
			146																							"	"		
			147																								"	"	
			148																								"	"	
			149																								"	"	
			150																								"	"	
			151																								"	"	
			152																								"	"	
	h _{FE}	3003	153	IB ₁	IB ₂	IB ₃	IB ₄	IB ₅	IB ₆	IB ₇	IB ₈													1000					
			154																						"				
			155																							"			
			156																							"			
			157																							"			
			158																							"			
			159																							"			
			160																							"			

TABLE III. Group A inspection for device type 10 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max		
3 T _A = -55°C	I _C EX		161	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			OUT ₁	μA	
			162										0 V												OUT ₂	"
			163										"												OUT ₃	"
			164										"												OUT ₄	"
			165										"												OUT ₅	"
			166										"												OUT ₆	"
			167										"												OUT ₇	"
			168										"			50 V	50 V								OUT ₈	"
V _{CE} (sat)	3007	169	850 μA	850 μA	850 μA	850 μA	850 μA	850 μA	850 μA	850 μA														OUT ₁	1.8 V	
		170										"												OUT ₂	"	
		171										"												OUT ₃	"	
		172										"												OUT ₄	"	
		173										"												OUT ₅	"	
		174										"												OUT ₆	"	
		175										"												OUT ₇	"	
		176										"			350 mA	350 mA								OUT ₈	"	
V _{CE} (sat)	3007	177	550 μA	550 μA	550 μA	550 μA	550 μA	550 μA	550 μA	550 μA	850 μA													OUT ₁	1.5 V	
		178											"											OUT ₂	"	
		179											"											OUT ₃	"	
		180											"											OUT ₄	"	
		181											"											OUT ₅	"	
		182											"											OUT ₆	"	
		183											"											OUT ₇	"	
		184											"			200 mA	200 mA							OUT ₈	"	
V _{CE} (sat)	3007	185	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	350 μA	550 μA													OUT ₁	1.3 V	
		186											"											OUT ₂	"	
		187											"											OUT ₃	"	
		188											"											OUT ₄	"	
		189											"											OUT ₅	"	
		190											"											OUT ₆	"	
		191											"											OUT ₇	"	
		192											"			100 mA	100 mA							OUT ₈	"	
I _{IN} (on)		193	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	350 μA													IN ₁	1180 μA	
		194											"											IN ₂	"	
		195											"											IN ₃	"	
		196											"											IN ₄	"	
		197											"											IN ₅	"	
		198											"											IN ₆	"	
		199											"											IN ₇	"	
		200											"											IN ₈	"	

TABLE III. Group A inspection for device type 10 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
3 T _A = -55°C	I _{IN} (off)		201	IN ₁	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA	25 μA

TABLE III. Group A inspection for device type 10 - Continued.

Subgroup	Symbol	MIL-STD-883 method	Test no.	Pin number and signal designation																		Measured terminal	Limits		Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		Min	Max		
9 T _A = +25°C	t _{PLH}	3003 Fig. 4	241	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	GND	COM	OUT ₈	OUT ₇	OUT ₆	OUT ₅	OUT ₄	OUT ₃	OUT ₂	OUT ₁			750	ns	
			242	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	0 V								OUT					"	
			243									"								OUT					"	
			244									"								OUT					"	
			245									"								OUT					"	
			246									"								OUT					"	
			247									"								OUT					"	
			248								IN ₇	IN ₈	"		OUT	OUT				OUT					"	
	t _{PHL}	3003 Fig. 4	249	IN ₁	IN ₂	IN ₃	IN ₄	IN ₅	IN ₆	IN ₇	IN ₈	"								OUT					300	ns
			250									"								OUT					"	
			251									"								OUT					"	
			252									"								OUT					"	
			253									"								OUT					"	
			254									"								OUT					"	
			255									"								OUT					"	
			256								IN ₇	IN ₈	"		OUT	OUT				OUT					"	

NOTE: Pins not designated are open.

4.4 Technology Conformance inspection (TCI). Technology conformance inspection shall be in accordance with MIL-PRF-38535 and herein for groups A, B, C, and D inspections (see 4.4.1 through 4.4.4).

4.4.1 Group A inspection. Group A inspection shall be in accordance with table III of MIL-PRF-38535 and as follows:

- a. Tests shall be as specified in table II herein.
- b. Subgroups 4, 5, 6, 7, 8, 10, and 11 in table I shall be omitted.

4.4.2 Group B inspection. Group B inspection shall be in accordance with table II of MIL-PRF-38535.

4.4.3 Group C inspection. Group C inspection shall be in accordance with table IV of MIL-PRF-38535 and as follows:

- a. End point electrical parameters shall be as specified in table II herein.
- b. The steady-state life test duration, test condition, and test temperature, or approved alternatives shall be as specified in the device manufacturer's QM plan in accordance with MIL-PRF-38535. The burn-in test circuit shall be maintained under document control by the device manufacturer's Technology Review Board (TRB) in accordance with MIL-PRF-38535 and shall be made available to the acquiring or preparing activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1005 of MIL-STD-883.

4.4.4 Group D inspection. Group D inspection shall be in accordance with table V of MIL-PRF-38535. End point electrical parameters shall be as specified in table II herein.

4.5 Methods of inspection. Methods of inspection shall be specified and as follows.

4.5.1 Voltage and current. All voltage values given are referenced to the microcircuit ground terminal of the device under test (DUT). Currents values given for conventional current and are positive when flowing into the referenced terminal.

4.5.2 Life test and burn-in cooldown procedure. When devices are measured at +25°C following application of the steady-state life or burn-in test condition, they shall be cooled within 10°C of their power stable condition at room temperature prior to removal of the bias.

5. PACKAGING

5.1 Packaging requirements. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department of Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

TABLE IV. Group C end-point electrical parameters. $T_A = +25^{\circ}\text{C}$

Test	Limits		Delta		Unit
	Min	Max	Min	Max	
I_{CEX}	---	10.0	-0.5	+0.5	μA
h_{FE}	1000	---	-25%	25%	---

6. NOTES

6.1 Intended use. Microcircuits conforming to this specification are intended for original equipment design applications and logistic support of existing equipment.

6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of the specification.
- b. Pin and compliance identifier, if applicable (see 1.2).
- c. Requirements for delivery of one copy of the conformance inspection data pertinent to the device inspection lot to be supplied with each shipment by the device manufacturer, if applicable.
- d. Requirements for certificate of compliance, if applicable.
- e. Requirements for notification of change of product or process to acquiring activity in addition to notification of the qualifying activity, if applicable.
- f. Requirements for failure analysis (including required test condition of MIL-STD-883, method 5003), corrective action and reporting of results, if applicable.
- g. Requirements for product assurance options.
- h. Requirements for special carriers, lead lengths, or lead forming, if applicable. These requirements should not affect the part number. Unless otherwise specified, these requirements will not apply to direct purchase by or direct shipment to the Government.
- i. Requirements for "JAN" marking.
- j. Packaging requirements (see 5.1).

6.3 Superseding information. The requirements of MIL-M-38510 have been superseded to take advantage of the available Qualified Manufacturer Listing (QML) system provided by MIL-PRF-38535. Previous references to MIL-M-38510 in this document have been replaced by appropriate references to MIL-PRF-38535. All technical requirements now consist of this specification and MIL-PRF-38535. The MIL-M-38510 specification sheet number and PIN have been retained to avoid adversely impacting existing government logistics systems and contractor's parts lists.

6.4 Qualification. With respect to products requiring qualification, awards will be made only for products which are, at the time of award of contract, qualified for inclusion in Qualified Manufacturers List QML-38535 whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or purchase orders for the products covered by this specification. Information pertaining to qualification of products may be obtained from DSCC-VQ, 3990 E. Broad Street, Columbus, Ohio 43123-1199.

6.5 Abbreviations, symbols, and definitions. The abbreviations, symbols, and definitions used herein are defined in MIL-PRF-38535, MIL-STD-1331, and as follows:

GND	Ground zero voltage potential
ICEX	Collector cutoff current
V _{IN}	Voltage level at an input terminal
V _F	Forward voltage drop
V _{CE}	Collector emitter saturation voltage
I _{IN}	Current flowing into an input terminal
I _R	Clamp diode leakage current
V _F	Clamp diode forward voltage

6.6 Logistic support. Lead materials and finishes (see 3.3) are interchangeable. Unless otherwise specified, microcircuits acquired for Government logistic support will be acquired to device class B (see 1.2.2), lead material and finish A (see 3.4). Longer length leads and lead forming should not affect the part number.

6.7 Substitutability. The cross-reference information below is presented for the convenience of users. Microcircuits covered by this specification will functionally replace the listed generic-industry type. Generic-industry microcircuit types may not have equivalent operational performance characteristics across military temperature ranges or reliability factors equivalent to MIL-M-38510 device types and may have slight physical variations in relation to case size. The presence of this information should not be deemed as permitting substitution of generic-industry types for MIL-M-38510 types or as a waiver of any of the provisions of MIL-PRF-38535.

Military device type	Generic-industry type
01	2001
02	2002
03	2003
04	2004
05	2005
06	2801
07	2802
08	2803
09	2804
10	2805

6.8 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue, due to the extensiveness of the changes.

Custodians:

Army – CR
Navy - EC
Air Force - 11
NASA - NA
DLA – CC

Preparing activity:

DLA - CC
Project 5962-2060

Review activities:

Army - MI, SM
Navy - AS, CG, SH, TD
Air Force – 03, 19, 99

NOTE: The activities listed above were interested in this document as of this date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at www.dodssp.daps.mil.