

INCH-POUND
MIL-M-38510/338B
10 February 2004
SUPERSEDING
MIL-M-38510/338A
22 May 1990

MILITARY SPECIFICATION

MICROCIRCUITS, DIGITAL, BIPOLAR, ADVANCED SCHOTTKY TTL, ARITHMETIC LOGIC UNITS, MONOLITHIC SILICON

Reactivated after 10 February 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, advanced Schottky TTL, arithmetic logic units. Two product assurance classes and a choice of case outlines and lead finishes are provided for each type 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 For this product, the requirements of MIL-M-38510 have been superseded by MIL-PRF-38535, (see 6.3).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.

1.2.1 Device types. The device types are as follows:

<u>Device type</u>	<u>Circuit</u>
01	4-bit arithmetic logic unit
02	Carry look-a-head generator
03	4-bit arithmetic logic unit
04	4-bit arithmetic logic unit

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

1.2.3 Case outlines. 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
F	GDFP2-F16 or CDFP3-F16	16	Flat pack
J	GDIP1-T24 or CDIP2-T-24	24	Dual-in-line
K	GDFP2-F24 or CDFP3-F24	24	Flat pack
L	GDIP3-T24 or CDIP4-T24	24	Dual-in-line
R	GDIP1-T20 or CDIP2-T20	20	Dual-in-line
S	GDFP2-F20 or CDFP3-F20	20	Flat pack
3	CQCC1-N28	28	Square leadless chip carrier
2	CQCC1-N20	20	Square leadless chip carrier

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 emailed to bipolar@dscc.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.
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1.3 Absolute maximum ratings.

Supply voltage range	-0.5 V dc to +7.0 V dc
Input voltage range	-1.2 V dc at -18 mA to +7.0 V dc
Storage temperature range	-65° to +150°C
Maximum power dissipation, per device (P_D) <u>1/</u>	
Device type 01	358 mW
Device type 02	198 mW
Device type 03	490 mW
Device type 04	446 mW
Lead temperature (soldering, 10 seconds)	+300°C
Thermal resistance, junction to case (θ_{JC})	(See MIL-STD-1835)
Junction temperature (T_J) <u>2/</u>	175°C

1.4 Recommended operating conditions.

Supply voltage (V_{CC})	4.5 V minimum to 5.5 V maximum
Minimum high level input voltage (V_{IH})	2.0 V dc
Maximum low level input voltage (V_{IL})	0.8 V dc
Normalized fanout (each output) <u>3/</u> :	
Low level	33 maximum
High level	50 maximum
Case operating temperature range (T_C)	-55° to +125°C

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 and Standards. 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.)

1/ Must withstand the added P_D due to short-circuit test (e.g., los).

2/ Maximum junction temperature shall not be exceeded except in accordance with allowable short duration burn-in screening condition in accordance with MIL-PRF-38535.

3/ The device shall fanout in both high and low levels to specified number of inputs of the same device type as that being tested.

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 takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

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. The terminal connections shall be as specified on figure 1.

3.3.2 Truth tables. The truth tables shall be as specified on figure 2.

3.3.3 Logic diagrams. The logic diagrams shall be as specified on figure 3.

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

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

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 case operating temperature range, unless otherwise specified.

3.6 Electrical test requirements. The 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.

3.8 Microcircuit group assignment. The devices covered by this specification shall be in microcircuit group number 11 (see MIL-PRF-38535, appendix A).

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.

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, and 6 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 as follows:

4.5.1 Voltage and current. All voltages given are referenced to the microcircuit ground terminal. Currents given are conventional and positive when flowing into the referenced terminal.

TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions $-55^{\circ}\text{C} \leq T_{\text{C}} \leq +125^{\circ}\text{C}$	Device type	Limits		Unit	
				Min	Max		
High level output voltage	V_{OH}	$V_{\text{CC}} = 4.5 \text{ V}$, $V_{\text{IL}} = 0.8 \text{ V}$, $I_{\text{OH}} = -1.0 \text{ mA}$, $V_{\text{IH}} = 2.0 \text{ V}$	All	2.5		V	
Low level output voltage	V_{OL}	$V_{\text{CC}} = 4.5 \text{ V}$, $I_{\text{OH}} = 20 \text{ mA}$, $V_{\text{IH}} = 2.0 \text{ V}$, $V_{\text{IL}} = 0.8 \text{ V}$	All		0.5	V	
Input clamp voltage	V_{IC}	$V_{\text{CC}} = 4.5 \text{ V}$, $I_{\text{IN}} = -18 \text{ mA}$, $T_{\text{C}} = +25^{\circ}\text{C}$	All		-1.2	V	
High level input current	I_{IH1}	$V_{\text{CC}} = 5.5 \text{ V}$, $V_{\text{IN}} = 2.7 \text{ V}$	All		20	μA	
	I_{IH2}	$V_{\text{CC}} = 5.5 \text{ V}$, $V_{\text{IN}} = 7.0 \text{ V}$	All		100	μA	
Low level input current	I_{IL1}	$V_{\text{CC}} = 5.5 \text{ V}$, $V_{\text{IL}} = 0.5 \text{ V}$	01	-0.03	-0.6	mA	
			02	-0.12	-1.2		
			03, 04	-0.12	-0.6		
	I_{IL2}		01	-0.09	-2.4	mA	
			01, 02, 03	-0.10	-2.4		
			01	-0.12	-3.6		
	I_{IL3}		02	-0.48	-3.6	mA	
			01	-0.15	-4.8		
			02	-0.6	-4.8		
	I_{IL4}		02	-3.5	-8.4	mA	
			02	-4.0	-9.6		
	I_{IL5}						
	I_{IL6}						
Short circuit output current <u>1/</u>	I_{OS}	$V_{\text{CC}} = 5.5 \text{ V}$, $V_{\text{OS}} = 0 \text{ V}$	All	-60	-150	mA	
Output drive current	I_{OD}	$V_{\text{CC}} = 4.5 \text{ V}$, $V_{\text{OUT}} = 2.5 \text{ V}$ $V_{\text{IN}} = 5.5 \text{ V}$	All	60		mA	
Supply current	I_{CCL}	$V_{\text{CC}} = 5.5 \text{ V}$	01		65	mA	
			02		36		
	I_{CCH}		01		65	mA	
			02		28		
	I_{CC}		03		89	mA	
			04		89		

See footnotes at end of table.

TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T _C ≤ +125°C	Device type	Limits		Unit
				Min	Max	
Propagation delay time low to high level, <u>2/</u>		V _{CC} = 5.0 V, C _L = 50 pF ± 10%, See figure 4	01			
\bar{A} i or \bar{B} i to \bar{F} i mode = sum	t _{PLH1}			3.0	14.5	ns
Any \bar{A} or \bar{B} to any \bar{F} mode = sum	t _{PLH2}			3.0	16.5	ns
\bar{A} or \bar{B} to C _n + 4 mode = sum	t _{PLH3}			5.0	17.0	ns
\bar{A} or \bar{B} to \bar{P} mode = sum	t _{PLH4}			2.5	9.5	ns
C _n to \bar{F}	t _{PLH5}			2.5	16.0	ns
\bar{A} or \bar{B} to \bar{G} mode = sum	t _{PLH6}			2.5	10.0	ns
C _n to C _n + 4	t _{PLH7}			3.0	11.5	ns
\bar{A} i or \bar{B} i to \bar{F} i mode = dif	t _{PLH8}			3.0	17.5	ns
\bar{A} or \bar{B} to \bar{F} mode = logic	t _{PLH9}			3.0	14.5	ns
Any \bar{A} or \bar{B} to any \bar{F} mode = dif	t _{PLH10}			3.0	17.5	ns
\bar{A} or \bar{B} to \bar{G} mode = dif	t _{PLH11}			2.5	11.5	ns
\bar{A} or \bar{B} to C _n + 4 mode = dif	t _{PLH12}			5.0	18.5	ns
\bar{A} or \bar{B} to \bar{P} mode = dif	t _{PLH13}			2.5	11.0	ns
\bar{A} or \bar{B} to A = B mode = dif	t _{PLH14}			8.0	35.0	ns

See footnotes at end of table.

TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T _C ≤ +125°C	Device type	Limits		Unit
				Min	Max	
Cn to Cn + x, Cn + 4, Cn + z	t _{PLH1}	V _{CC} = 5.0 V, C _L = 50 pF ± 10%, See figure 4	02	3.0	11.5	ns
̄P 0, ̄P 1 or ̄P 2 to Cn + x, Cn + y, or Cn + z	t _{PLH2}		02	2.0	10.5	ns
̄G 0, ̄G 1 or ̄G 2 to Cn + x, Cn + y, or Cn + z	t _{PLH3}		02	2.0	11.0	ns
̄P 1, ̄P 2 or ̄P 3 to ̄G	t _{PLH4}		02	2.0	12.0	ns
̄G n to ̄G	t _{PLH5}		02	2.5	12.0	ns
̄P n to ̄P	t _{PLH6}		02	2.5	10.0	ns
Ci to Fi	t _{PLH1}		03	2.5	15.0	ns
Ai to Fi	t _{PLH2}		03	3.0	17.0	ns
Bi to Fi	t _{PLH3}		03	3.0	17.0	ns
Si to Fi	t _{PLH4}		03	3.0	21.0	ns
Ai to ̄G	t _{PLH5}		03	3.0	13.5	ns
Bi to ̄G	t _{PLH6}		03	3.0	13.0	ns
Ai to ̄P	t _{PLH7}		03	2.0	14.0	ns
Bi to ̄P	t _{PLH8}		03	2.0	14.0	ns
Si to ̄G	t _{PLH9}		03	3.0	17.0	ns
Si to ̄P	t _{PLH10}		03	3.0	16.0	ns

See footnotes at end of table.

TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions $-55^{\circ}\text{C} \leq T_C \leq +125^{\circ}\text{C}$	Device type	Limits		Unit
				Min	Max	
Cn to Fi	t _{PLH1}	$V_{CC} = 5.0 \text{ V}, C_L = 50 \text{ pF} \pm 10\%,$ See figure 4	04	3.0	15.0	ns
Ai to Fi	t _{PLH2}		04	4.0	18.0	ns
Bi to Fi	t _{PLH3}		04	4.0	18.0	ns
Si to Fi	t _{PLH4}		04	4.0	23.5	ns
Ai to OVR	t _{PLH5}		04	6.0	18.5	ns
Bi to OVR	t _{PLH6}		04	6.0	18.5	ns
Ai to Cn + 4	t _{PLH7}		04	3.5	11.5	ns
Bi to Cn + 4	t _{PLH8}		04	3.5	11.5	ns
Si to OVR	t _{PLH9}		04	5.0	19.5	ns
Si to Cn + 4	t _{PLH10}		04	6.5	19.5	ns
Cn to Cn + 4	t _{PLH11}		04	2.0	11.0	ns
Cn to OVR	t _{PLH12}		04	3.0	14.0	ns
Propagation delay time high to low level, $\underline{2}/$						
\bar{A}_i or \bar{B}_i to \bar{F}_i mode = sum	t _{PHL1}		01	3.0	14.5	ns
Any \bar{A} or \bar{B} to any \bar{F} mode = sum	t _{PHL2}		01	3.0	14.0	ns

See footnotes at end of table.

TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T _C ≤ +125°C	Device type	Limits		Unit
				Min	Max	
Ā or Ā to C _n + 4 mode = sum	t _{PHL3}	V _{CC} = 5.0 V, C _L = 50 pF ± 10%, See figure 4	01	3.5	16.5	ns
Ā or Ā to Ā mode = sum	t _{PHL4}		01	3.0	10.0	ns
C _n to Ē	t _{PHL5}		01	2.5	12.0	ns
Ā or Ā to Ĝ mode = sum	t _{PHL6}		01	2.5	10.0	ns
C _n to C _n + 4	t _{PHL7}		01	3.0	10.0	ns
Ā i or Ā i to Ē i mode = dif	t _{PHL8}		01	3.0	14.5	ns
Ā or Ā to Ē mode = logic	t _{PHL9}		01	3.0	15.5	ns
Any Ā or Ā to any Ē mode = dif	t _{PHL10}		01	3.0	16.0	ns
Ā or Ā to Ĝ mode = dif	t _{PHL11}		01	2.5	12.5	ns
Ā or Ā to C _n + 4 mode = dif	t _{PHL12}		01	4.0	17.0	ns
Ā or Ā to Ā mode = dif	t _{PHL13}		01	2.5	11.5	ns
Ā or Ā to A = B mode = dif	t _{PHL14}		01	5.5	21.0	ns
C _n to C _n + x, C _n + y, C _n + z	t _{PHL1}		02	2.5	11.0	ns
Ā 0, Ā 1 or Ā 2 to C _n + x, C _n + y, or C _n + z	t _{PHL2}		02	1.0	7.0	ns
Ā 0, Ā 1 or Ā 2 to C _n + x, C _n + y, or C _n + z	t _{PHL3}		02	1.0	7.0	ns
Ā 1, Ā 2 or Ā 3 to Ĝ	t _{PHL4}		02	2.5	10.0	ns

See footnotes at end of table.

TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T _C ≤ +125°C	Device type	Limits		Unit
				Min	Max	
̄G n to ̄G	t _{PHL5}	V _{CC} = 5.0 V, C _L = 50 pF ± 10%, See figure 4	02	2.5	10.0	ns
̄P n to ̄P	t _{PHL6}		02	1.5	8.0	ns
Ci to Fi	t _{PHL1}		03	2.5	12.0	ns
Ai to Fi	t _{PHL2}		03	3.0	15.0	ns
Bi to Fi	t _{PHL3}		03	3.0	16.0	ns
Si to Fi	t _{PHL4}		03	3.0	16.0	ns
Ai to ̄G	t _{PHL5}		03	3.0	13.5	ns
Bi to ̄G	t _{PHL6}		03	3.0	13.5	ns
Ai to ̄P	t _{PHL7}		03	3.0	12.5	ns
Bi to ̄P	t _{PHL8}		03	3.0	12.5	ns
Si to ̄G	t _{PHL9}		03	3.0	18.0	ns
Si to ̄P	t _{PHL10}		03	3.0	18.0	ns
Cn to Fi	t _{PHL1}		04	2.5	11.0	ns
Ai to Fi	t _{PHL2}		04	3.5	14.0	ns
Bi to Fi	t _{PHL3}		04	3.5	14.0	ns
Si to Fi	t _{PHL4}		04	4.0	16.5	ns
Ai to OVR	t _{PHL5}		04	5.0	14.5	ns

See footnotes at end of table.

TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions $-55^{\circ}\text{C} \leq T_C \leq +125^{\circ}\text{C}$	Device type	Limits		Unit
				Min	Max	
Bi to OVR	t _{PHL6}	$V_{CC} = 5.0 \text{ V}, C_L = 50 \text{ pF} \pm 10\%,$ See figure 4	04	5.0	14.5	ns
Ai to Cn + 4	t _{PHL7}		04	3.5	14.5	ns
Bi to Cn + 4	t _{PHL8}		04	3.5	14.5	ns
Si to OVR	t _{PHL9}		04	5.0	19.0	ns
Si to Cn + 4	t _{PHL10}		04	5.0	17.5	ns
Cn to Cn + 4	t _{PHL11}		04	2.0	12.0	ns
Cn to OVR	t _{PHL12}		04	2.5	13.0	ns

1/ Not more than one output should be shorted at a time.

2/ In Ai, Bi, Fi, and Si, i = 0, 1, 2, or 3.

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, 7, 9, 10, 11	1*, 2, 3, 7, 9
Group A test requirements	1, 2, 3, 7, 8, 9, 10, 11	1, 2, 3, 7, 8, 9, 10, 11
Group B electrical test parameters when using the method 5005 QCI option	1, 2, 3, 7, 8, 9, 10, 11	N/A
Group C end-point electrical parameters	1, 2, 3, 7, 8, 9, 10, 11	1, 2, 3
Group D end-point electrical parameters	1, 2, 3	1, 2, 3

*PDA applies to subgroup 1.

Terminal number	Device type 01		Device type 02		Device 03	Device 04
	Cases J, K, and L	Case 3	Cases E and F	Case 2	Cases R, S, and 2	Cases R, S, and 2
1	Ā 0	N/C	Ā 1	N/C	A1	A1
2	Ā 0	Ā 0	Ā 1	Ā 1	B1	B1
3	S3	Ā 0	Ā 0	Ā 1	A0	A0
4	S2	S3	Ā 0	Ā 0	B0	B0
5	S1	S2	Ā 3	Ā 0	S0	S0
6	S0	S1	Ā 3	N/C	S1	S1
7	Cn	S0	Ā	Ā 3	S2	S2
8	M	N/C	GND	Ā 3	F0	F0
9	Ā 0	Cn	Cn + z	Ā	F1	F1
10	Ā 1	M	Ā	GND	GND	GND
11	Ā 2	Ā 0	Cn + y	N/C	F2	F2
12	GND	Ā 1	Cn + x	Cn + z	F3	F3
13	Ā 3	Ā 2	Cn	Ā	Ā	OVR
14	A = B	GND	Ā 2	Cn + y	Ā	Cn + 4
15	Ā	N/C	Ā 2	Cn + x	Cn	Cn
16	Cn + 4	Ā 3	V _{cc}	N/C	B3	B3
17	Ā	A = B		Cn	A3	A3
18	Ā 3	Ā		Ā 2	B2	B2
19	Ā 3	Cn + 4		Ā 2	A2	A2
20	Ā 2	Ā		V _{cc}	V _{cc}	V _{cc}
21	Ā 2	Ā 3				
22	Ā 1	N/C				
23	Ā 1	Ā 3				
24	V _{cc}	Ā 2				
25		Ā 2				
26		Ā 1				
27		Ā 1				
28		V _{cc}				

FIGURE 1. Terminal connections.

Device type 01

Mode select inputs				Active LOW operands & Fn Outputs		Active High operands & Fn Outputs	
S3	S2	S1	S0	Logic (M = H)	Arithmetic** (M = L) (Cn = L)	Logic (M = H)	Arithmetic** (M = L) (Cn = H)
L	L	L	L	\bar{A}	A minus 1	\bar{A}	A
L	L	L	H	$\bar{A}\bar{B}$	AB minus 1	$\bar{A}+\bar{B}$	$A+B$
L	L	H	L	$\bar{A} + B$	$\bar{A}\bar{B}$ minus 1	$\bar{A}B$	$A + \bar{B}$
L	L	H	H	Logic 1	minus 1	Logic 0	minus 1
L	H	L	L	$\bar{A}+B$	A plus ($A + \bar{B}$)	$\bar{A}\bar{B}$	A plus $A\bar{B}$
L	H	L	H	\bar{B}	AB plus ($A + \bar{B}$)	\bar{B}	$(A+B)$ plus $A\bar{B}$
L	H	H	L	$\bar{A}\oplus B$	A minus B minus 1	$A \oplus B$	A minus B minus 1
L	H	H	H	$A + \bar{B}$	$A + \bar{B}$	$A\bar{B}$	$A\bar{B}$ minus 1
H	L	L	L	$\bar{A}B$	A plus ($A + B$)	$\bar{A} + B$	A plus AB
H	L	L	H	$A \oplus B$	A plus B	$\bar{A}\oplus B$	A plus B
H	L	H	L	B	$\bar{A}\bar{B}$ plus ($A + B$)	B	$(A + \bar{B})$ plus AB
H	L	H	H	$A + B$	$A + B$	AB	AB minus 1
H	H	L	L	Logic 0	A plus A*	Logic 1	A plus A*
H	H	L	H	$\bar{A}\bar{B}$	AB plus A	$A + \bar{B}$	$(A+B)$ plus A
H	H	H	L	AB	$\bar{A}\bar{B}$ minus A	$A + B$	$(A + \bar{B})$ plus A
H	H	H	H	A	A	A	A minus 1

* Each bit is shifted to the next more significant position.

** Arithmetic operations expressed is 2's complement notation.

H = HIGH voltage level.

L = LOW voltage level.

FIGURE 2. Truth tables.

Device type 02

Inputs									Outputs				
Cn	\bar{G}_0	\bar{P}_0	\bar{G}_1	\bar{P}_1	\bar{G}_2	\bar{P}_2	\bar{G}_3	\bar{P}_3	$C_n + x$	$C_n + y$	$C_n + z$	\bar{G}	\bar{P}
X	H	H							L				
L	H	X							L				
X	L	X							H				
H	X	L							H				
X	X	X	H	H					L				
X	H	H	H	X					L				
L	H	X	H	X					L				
X	X	X	L	X					H				
X	L	X	X	L					H				
H	X	L	X	L					H				
X	X	X	X	X	H	H				L			
X	X	X	H	H	H	X				L			
X	H	H	H	X	H	X				L			
L	H	X	H	X	H	X				L			
X	X	X	X	X	L	X				H			
X	X	X	L	X	X	L				H			
X	L	X	X	L	X	L				H			
H	X	L	X	L	X	L				H			
X		X	X	X	X	H	H				H		
X		X	X	H	H	H	X				H		
X		H	H	H	X	H	X				H		
H		H	X	H	X	H	X				H		
X		X	X	X	X	L	X				L		
X		X	X	L	X	X	L				L		
X		L	X	X	L	X	L				L		
L		X	L	X	L	X	L				L		
	H		X		X			X					H
	X		H		X			X					H
	X		X		H			X					H
	X		X		X			H					H
		L		L		L		L					L

H = HIGH voltage level

L = LOW voltage level

X = Immaterial

FIGURE 2. Truth tables - Continued.

Device type 03

Function	Inputs						Outputs					
	S0	S1	S2	Cn	An	Bn	F0	F1	F2	F3	G	P
Clear	0	0	0	X	X	X	0	0	0	0	0	0
B minus A	1	0	0	0	0	0	1	1	1	1	1	0
				0	0	1	0	1	1	1	0	0
				0	1	0	0	0	0	0	1	1
				0	1	1	1	1	1	1	1	0
				1	0	0	0	0	0	0	1	0
				1	0	1	1	1	1	1	0	0
				1	1	0	1	0	0	0	1	1
				1	1	1	0	0	0	0	1	0
A minus B	0	1	0	0	0	0	1	1	1	1	1	0
				0	0	1	0	0	0	0	1	1
				0	1	0	0	1	1	1	0	0
				0	1	1	1	1	1	1	1	0
				1	0	0	0	0	0	0	1	0
				1	0	1	1	0	0	0	1	1
				1	1	0	1	1	1	1	0	0
				1	1	1	0	0	0	0	1	0
A plus B	1	1	0	0	0	0	0	0	0	0	1	1
				0	0	1	1	1	1	1	1	0
				0	1	0	1	1	1	1	1	0
				0	1	1	0	1	1	1	0	0
				1	0	0	1	0	0	0	1	1
				1	0	1	0	0	0	0	1	0
				1	1	0	0	0	0	0	1	0
				1	1	1	1	1	1	1	0	0
A ⊕ B	0	0	1	X	0	0	0	0	0	0	1	1
				X	0	1	1	1	1	1	1	1
				X	1	0	1	1	1	1	1	0
				X	1	1	0	0	0	0	0	0
A + B	1	0	1	X	0	0	0	0	0	0	1	1
				X	0	1	1	1	1	1	1	1
				X	1	0	1	1	1	1	1	1
				X	1	1	1	1	1	1	1	0
AB	0	1	1	X	0	0	0	0	0	0	0	0
				X	0	1	0	0	0	0	1	1
				X	1	0	0	0	0	0	0	0
				X	1	1	1	1	1	1	1	0
Preset	1	1	1	X	0	0	1	1	1	1	1	1
				X	0	1	1	1	1	1	1	1
				X	1	0	1	1	1	1	1	1
				X	1	1	1	1	1	1	1	0

1 = HIGH voltage level

0 = LOW voltage level

X = Immortal

FIGURE 2. Truth tables - Continued.

Device type 04

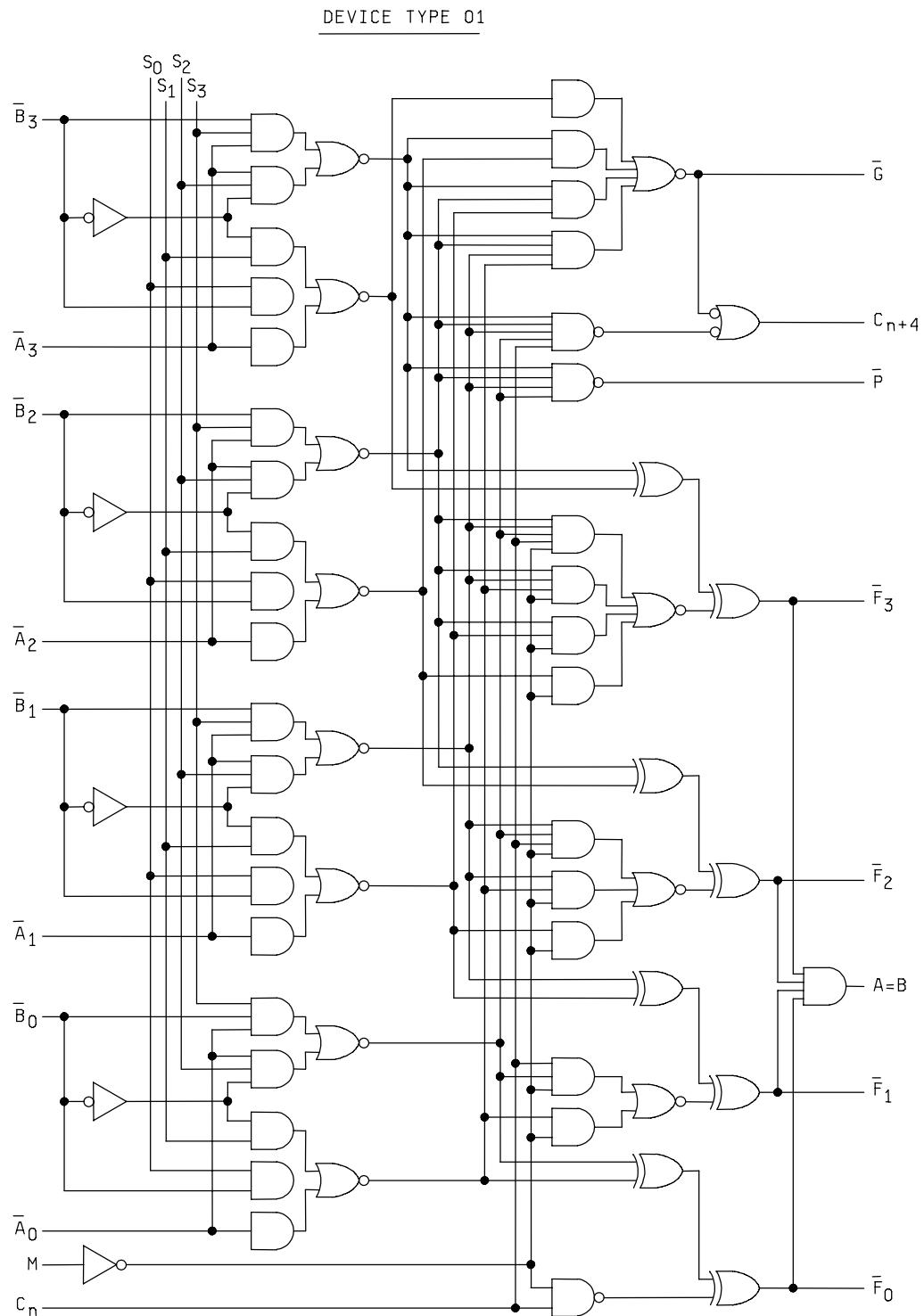
Function	Inputs						Outputs					
	S0	S1	S2	Cn	An	Bn	F0	F1	F2	F3	OVR	Cn + 4
Clear	0	0	0	0	X	X	0	0	0	0	1	1
				1	X	X	0	0	0	0	1	1
B minus A	1	0	0	0	0	0	1	1	1	1	0	0
				0	0	1	0	1	1	1	0	1
				0	1	0	0	0	0	0	0	0
				0	1	1	1	1	1	1	0	0
				1	0	0	0	0	0	0	0	1
				1	0	1	1	1	1	1	0	1
				1	1	0	1	0	0	0	0	0
				1	1	1	0	0	0	0	0	1
				0	0	0	1	1	1	1	0	0
A minus B	0	1	0	0	0	1	0	0	0	0	0	0
				0	1	0	0	1	1	1	0	1
				0	1	1	1	1	1	1	0	0
				1	0	0	0	0	0	0	0	1
				1	0	1	1	0	0	0	0	0
				1	1	0	1	1	1	1	0	1
				1	1	1	0	0	0	0	0	1
				0	0	0	0	0	0	0	0	0
				0	0	1	1	1	1	1	0	0
A plus B	1	1	0	0	0	0	0	0	0	0	0	0
				0	0	1	1	1	1	1	0	0
				0	1	0	1	1	1	1	0	0
				0	1	1	0	1	1	1	0	1
				1	0	0	1	0	0	0	0	0
				1	0	1	0	0	0	0	0	1
				1	1	0	0	0	0	0	0	1
				1	1	1	1	1	1	1	0	1
				X	0	0	0	0	0	0	0	0
A \oplus B	0	0	1	X	0	1	1	1	1	1	0	0
				0	1	0	1	1	1	1	0	0
				X	1	1	0	0	0	0	1	1
				1	1	0	1	1	1	1	1	1
				X	0	0	0	0	0	0	0	0
A + B	1	0	1	X	0	1	1	1	1	1	0	0
				X	0	1	0	1	1	1	0	0
				X	1	0	1	1	1	1	0	0
				0	1	1	1	1	1	1	0	0
				1	1	1	1	1	1	1	1	1
AB	0	1	1	X	0	0	0	0	0	0	1	1
				X	0	1	0	0	0	0	0	0
				X	1	0	0	0	0	0	1	1
				0	1	1	1	1	1	1	0	0
				1	1	1	1	1	1	1	1	1
Preset	1	1	1	X	0	0	1	1	1	1	0	0
				X	0	1	1	1	1	1	0	0
				X	1	0	1	1	1	1	0	0
				0	1	1	1	1	1	1	0	0
				1	1	1	1	1	1	1	1	1

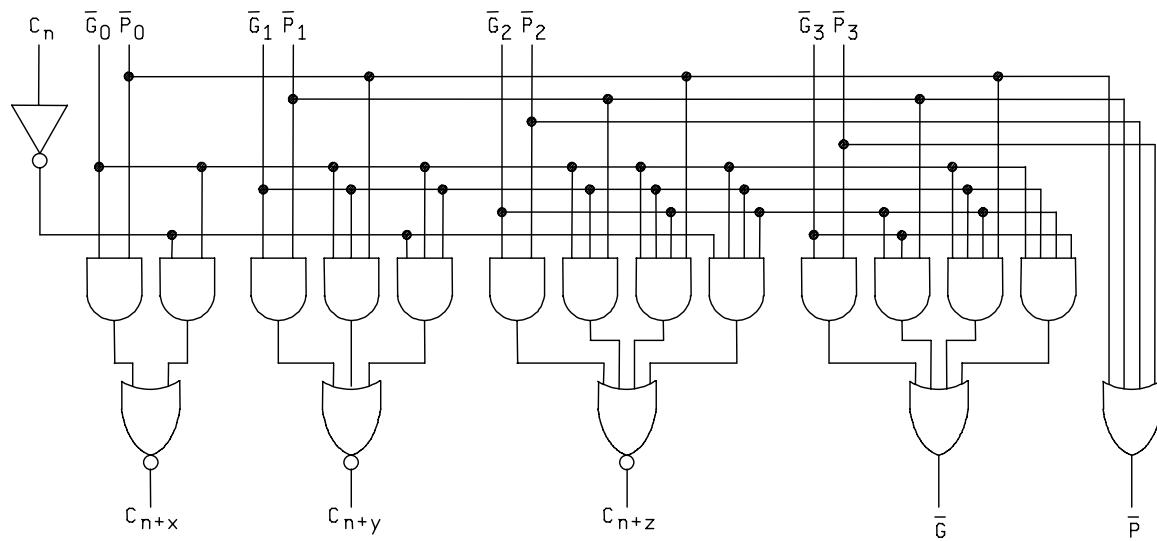
1 = HIGH voltage level

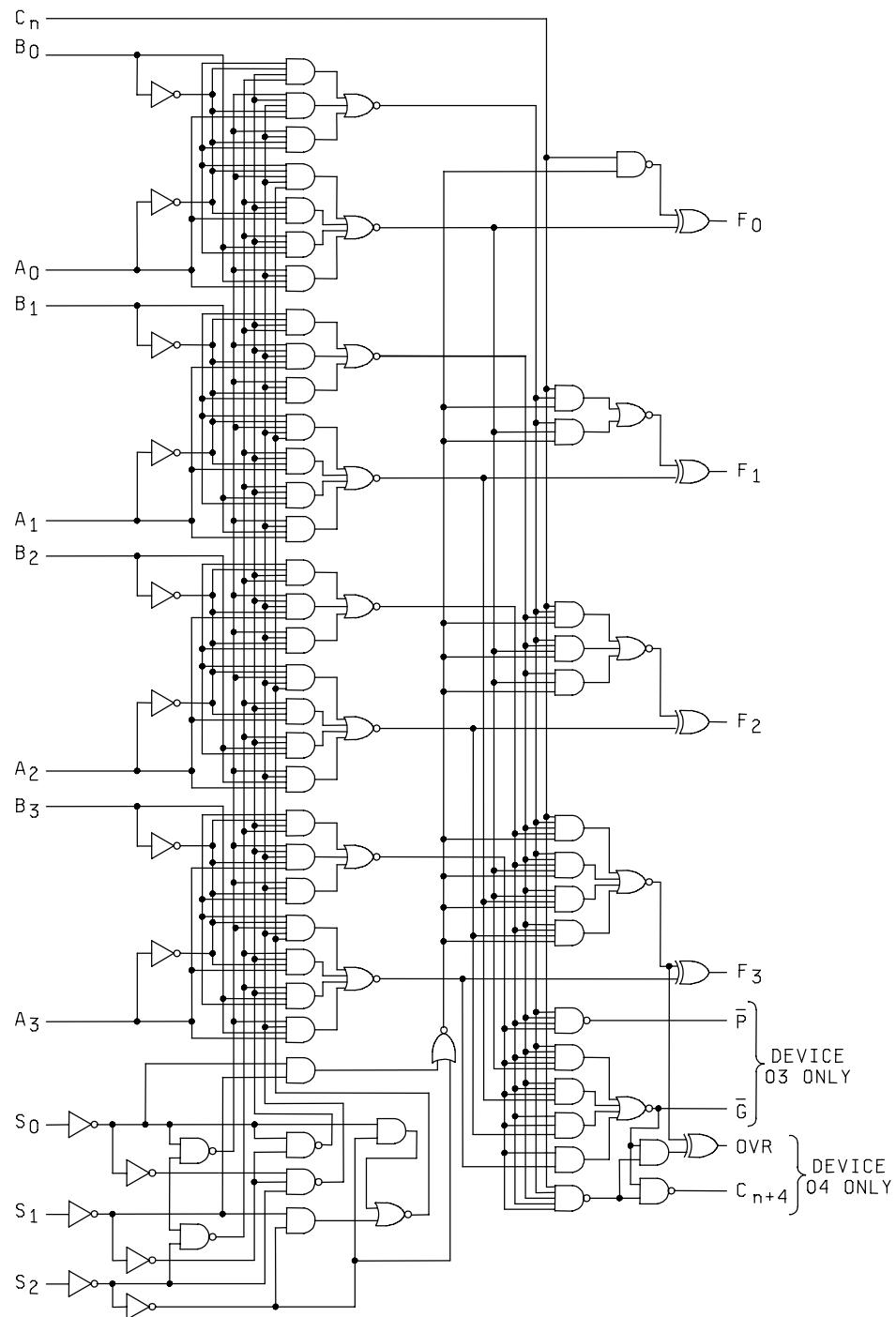
0 = LOW voltage level

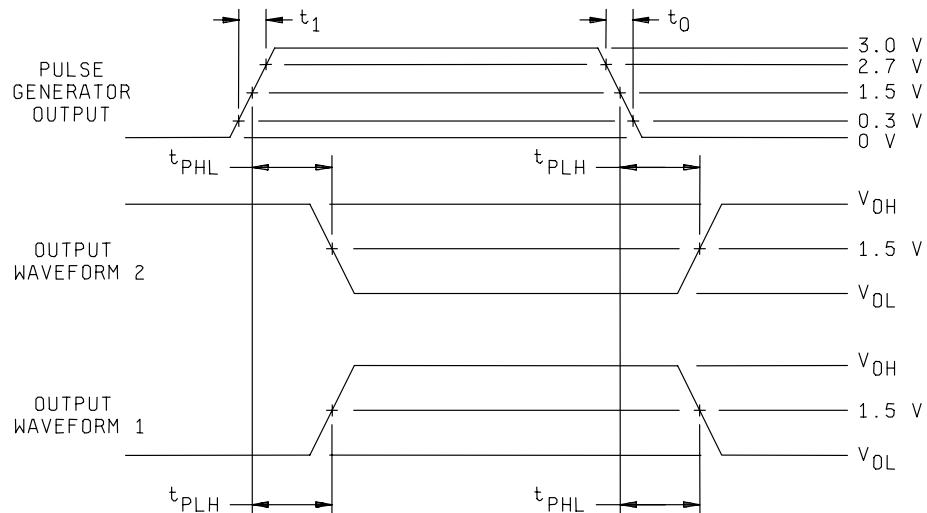
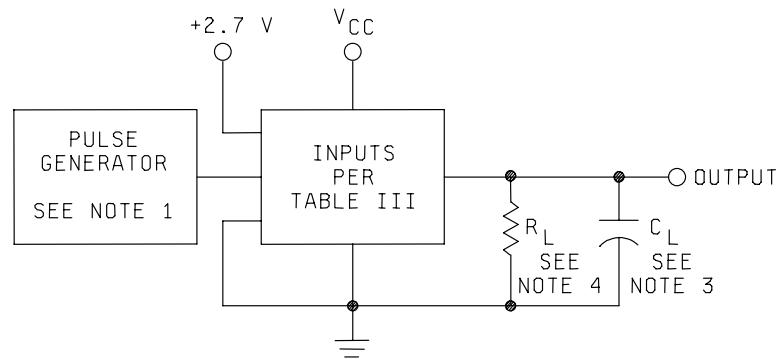
X = Immaterial

FIGURE 2. Truth tables - Continued.

FIGURE 3. Logic diagram.

DEVICE TYPE 02FIGURE 3. Logic diagram - Continued.

DEVICE TYPES 03 AND 04FIGURE 3. Logic diagram - Continued.



NOTES:

1. Pulse generator has the following characteristics: $t_1 = t_0 \leq 2.5\text{ ns}$, PRR $\leq 1\text{ MHz}$, $Z_{OUT} \approx 50\Omega$.
2. Inputs not under test are at ground.
3. $C_L = 50\text{ pF} \pm 10\%$.
4. $R_L = 499\Omega \pm 5\%$.
5. Voltage measurements are to be made with respect to network ground terminal.

FIGURE 4. Switching time waveforms (circuit for all device types).

TABLE III. Group A inspection for device type 01.
Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3_/_	1	2	3	4	5	6	7	8	9	10	11	12	Measured terminal	Limits	Unit
		Test no.		\bar{B} 0	\bar{A} 0	S3	S2	S1	S0	Cn	M	\bar{F} 0	\bar{F} 1	\bar{F} 2	GND	\bar{G}	Min	Max
$T_c = 25^\circ\text{C}$	V_{OH}	3006	1	0.8 V	0.8 V	2.0 V	0.8 V	0.8 V	0.8 V							\bar{G}	2.5	V
		"	2	2.0 V	2.0 V	"	2.0 V	0.8 V	0.8 V							$\bar{Cn}4$	"	"
		"	3	2.0 V	"	"	"	2.0 V	2.0 V							\bar{P}	"	"
		"	4	0.8 V	"	"	"	"	"	0.8 V	2.0 V					$\bar{F}0$	"	"
		"	5	"	"	"	"	"	"	"	"	-1.0 mA				$\bar{F}1$	"	"
		"	6	"	"	"	"	"	"	"	"	-1.0 mA				$\bar{F}2$	"	"
		"	7	"	"	"	"	"	"	"	"					$\bar{F}3$	"	"
		V_{OL}	3007	8	2.0 V	"	"	0.8 V	"							\bar{G}	0.5	"
		"	9	"	"	"	0.8 V	0.8 V	0.8 V	0.8 V						$\bar{Cn}4$	"	"
		"	10	"	"	0.8 V	2.0 V	2.0 V	2.0 V							\bar{P}	"	"
		"	11	"	0.8 V	2.0 V	"	"	"	2.0 V	2.0 V					$\bar{F}0$	"	"
		"	12	"	"	"	"	"	"	"	"	20 mA				$\bar{F}1$	"	"
		"	13	"	"	"	"	"	"	"	"		20 mA			$\bar{F}2$	"	"
		"	14	"	"	"	"	"	"	"	"					$\bar{F}3$	"	"
		"	15	"	"	"	"	"	"	"	"					$A=B$	"	"
		V_{IC}	16	-18 mA												$\bar{B}0$	-1.2	"
		"	17	-18 mA												$\bar{A}0$	"	"
		"	18	-18 mA												$S3$	"	"
		"	19													$S2$	"	"
		"	20					-18 mA	-18 mA							$S1$	"	"
		"	21						-18 mA	-18 mA						$S0$	"	"
		"	22							-18 mA	-18 mA					Cn	"	"
		"	23								-18 mA					M	"	"
		"	24													$\bar{B}3$	"	"
		"	25													$\bar{A}3$	"	"
		"	26													$\bar{B}2$	"	"
		"	27													$\bar{A}2$	"	"
		"	28													$\bar{B}1$	"	"
		"	29													$\bar{A}1$	"	"
	I_{H1}	3010	30	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	2.7 V					M	20	μA
		"	31	"	2.7 V	"	"	"	"	"	0.0 V					$\bar{A}0$	"	"
		"	32	"	0.0 V	"	"	"	"	"	"					$\bar{A}1$	"	"
		"	33	"	"	"	"	"	"	"	"					$\bar{A}2$	"	"
		"	34	"	"	"	"	"	"	"	"					$\bar{A}3$	"	"
		"	35	2.7 V	"	"	"	"	"	"	"					$\bar{B}0$	"	"
		"	36	0.0 V	"	"	"	"	"	"	"					$\bar{B}1$	"	"
		"	37	"	"	"	"	"	"	"	"					$\bar{B}2$	"	"
		"	38	"	"	"	"	"	"	"	"					$\bar{B}3$	"	"

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type 01 - Continued.
Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3.1/ Test no.	13	14	15	16	17	18	19	20	21	23	24	25	26	27	28	Measured terminal	Limits	Unit
Tc = 25°C	V _{OH}	3006	1					-1.0 mA	2.0 V	2.0 V	0.8 V	2.0 V	2.0 V	"	G	2.5	V				
		"	2					-1.0 mA	"	"	0.8 V	2.0 V	2.0 V	2.0 V	2.0 V	"	"	"	Cn+4	"	"
		"	3					-1.0 mA	"	"	2.0 V	"	"	"	P	"	"				
		"	4						0.8 V	"	"	"	F0	"	"						
		"	5						"	"	"	"	"	"	"	"	"	"	F1	"	"
		"	6						"	"	"	"	"	"	"	"	"	"	F2	"	"
		"	7	-1.0 mA					"	"	"	"	"	"	"	"	"	"	F3	"	"
	V _{OL}	3007	8				20 mA		0.8 V	2.0 V	"	2.0 V	"	2.0 V	"	"	"	"	G	0.5	"
		"	9				20 mA		"	2.0 V	2.0 V	0.8 V	"	0.8 V	"	"	"	"	Cn+4	"	"
		"	10				20 mA		"	2.0 V	2.0 V	"	2.0 V	"	2.0 V	"	"	"	P	"	"
V _{IC}		"	11						"	0.8 V	"	0.8 V	"	0.8 V	"	"	"	"	F0	"	"
		"	12						"	"	"	"	"	"	"	"	"	"	F1	"	"
		"	13						"	"	"	"	"	"	"	"	"	"	F2	"	"
		"	14	20 mA					"	"	"	"	"	"	"	"	"	"	F3	"	"
		"	15	20 mA					"	2.0 V	"	2.0 V	"	2.0 V	"	"	"	"	A=B	"	"
		"	16																B0	-1.2	"
		"	17																A0	"	"
		"	18																S3	"	"
		"	19																S2	"	"
		"	20																S1	"	"
I _{H1}			21																S0	"	"
			22																Cn	"	"
			23																M	"	"
			24																B3	"	"
			25																A3	"	"
			26																B2	"	"
			27																A2	"	"
			28																B1	"	"
			29																A1	"	"
			30																A2	"	"
			31																A3	"	"
			32																B0	"	"
			33																B1	"	"
			34																A2	"	"
			35																A3	"	"
			36																B0	"	"
			37																B1	"	"
			38																B2	"	"
																			B3	"	"

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type 01.
Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L	1	2	3	4	5	6	7	8	9	10	11	12	Measured terminal	Limits	Unit
			Case 3 1/	Test no.	\bar{B} 0	\bar{A} 0	S3	S2	S1	\bar{S} 0	Cn	M	\bar{F} 0	\bar{F} 1	\bar{F} 2	GND	S0	20
$T_c = 25^\circ C$	I_{H1}	3010	39	0.0 V	0.0 V	0.0 V	2.7 V	0.0 V	0.0 V	"	"	"	"	"	"	S3	"	"
		"	40	0.0 V	"	0.0 V	0.0 V	0.0 V	0.0 V	"	"	"	"	"	"	S1	"	"
		"	41	5.5 V	"	0.0 V	2.7 V	0.0 V	0.0 V	"	"	"	"	"	"	S2	"	"
		"	42	"	"	0.0 V	2.7 V	0.0 V	0.0 V	"	"	"	"	"	"	"	"	"
		"	43	"	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	2.7 V	5.5 V	5.5 V	"	Cn	"	"
		"	44	0.0 V	"	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	7.0 V	"	M	100	"
		"	45	"	7.0 V	"	"	"	"	"	"	"	"	"	"	\bar{A} 0	"	"
		"	46	"	0.0 V	"	"	"	"	"	"	"	"	"	"	\bar{A} 1	"	"
		"	47	"	"	"	"	"	"	"	"	"	"	"	"	\bar{A} 2	"	"
		"	48	"	"	"	"	"	"	"	"	"	"	"	"	\bar{A} 3	"	"
I_u	I_{H2}	3009	49	7.0 V	"	"	"	"	"	"	"	"	"	"	"	\bar{B} 0	"	"
		"	50	0.0 V	"	"	"	"	"	"	"	"	"	"	"	\bar{B} 1	"	"
		"	51	"	"	"	"	"	"	"	"	"	"	"	"	\bar{B} 2	"	"
		"	52	"	"	"	"	"	"	"	"	"	"	"	"	\bar{B} 3	"	"
		"	53	"	"	"	"	"	"	"	"	"	"	"	"	S0	"	"
		"	54	"	"	7.0 V	"	"	"	7.0 V	"	"	"	"	"	S3	"	"
		"	55	5.5 V	"	0.0 V	"	7.0 V	"	0.0 V	"	"	"	"	"	S1	"	"
		"	56	"	5.5 V	0.0 V	7.0 V	"	0.0 V	"	"	"	"	"	"	$\bar{S}2$	"	"
		"	57	"	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	7.0 V	5.5 V	5.5 V	"	Cn	"	"
		"	58	"	0.5 V	"	"	"	"	"	"	"	"	"	"	M	2/	2/ mA
I_{L1}	I_{L2}	3011	59	0.5 V	"	"	"	"	"	"	"	"	"	"	"	\bar{B} 0	"	"
		"	60	5.5 V	"	"	"	"	"	"	"	"	"	"	"	\bar{B} 1	"	"
		"	61	"	"	"	"	"	"	"	"	"	"	"	"	\bar{B} 2	"	"
		"	62	"	"	"	"	"	"	"	"	"	"	"	"	\bar{B} 3	"	"
		"	63	"	0.5 V	"	"	"	"	"	"	"	"	"	"	\bar{A} 0	"	"
		"	64	"	5.5 V	"	"	"	"	"	"	"	"	"	"	\bar{A} 1	"	"
		"	65	"	"	"	"	"	"	"	"	"	"	"	"	\bar{A} 2	"	"
		"	66	"	"	"	"	"	"	"	"	"	"	"	"	\bar{A} 3	"	"
		"	67	"	"	0.5 V	"	"	"	0.5 V	"	"	"	"	"	S0	"	"
		"	68	"	0.5 V	"	0.5 V	"	0.5 V	"	"	"	"	"	"	S3	"	"
I_{L3}	I_{L4}	70	69	0.0 V	"	5.5 V	"	0.0 V	0.0 V	0.0 V	"	0.0 V	0.0 V	"	"	S2	"	"
		"	71	"	0.0 V	"	0.0 V	"	0.0 V	0.0 V	"	0.5 V	0.0 V	"	"	Cn	"	"
		"	72	"	"	5.5 V	"	"	"	"	"	"	"	"	"	\bar{G}	-150	"
		"	73	"	"	0.0 V	"	"	"	0.0 V	"	"	"	"	"	Cn+4	"	"
		"	74	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	"	\bar{P}	"	"
I_{OS}		"	75	"	"	"	"	"	"	"	"	"	"	"	"	\bar{F} 0	"	"
		"	76	"	"	"	"	"	"	"	"	"	"	"	"	\bar{F} 1	"	"
		"	77	"	"	"	"	"	"	"	"	"	"	"	"	\bar{F} 2	"	"
		"	78	"	"	"	"	"	"	"	"	"	"	"	"	\bar{F} 3	"	"

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type 01 - Continued.
Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L	13	14	15	16	17	18	19	20	21	23	24	25	26	27	28	Measured terminal	Limits	Unit
			Case no.	\bar{F}_3	A = B	\bar{P}	Cn+4	\bar{G}	\bar{B} 3	\bar{B} 2	\bar{A} 2	\bar{B} 1	\bar{A} 1	V_{CC}	S0	Min	Max	20	μA		
Tc = 25°C	I _{H1}	3010	39	"				0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	5.5 V	S0	20					
	I _{H2}	"	40	"				5.5 V	"	0.0 V	"	"	"	"	S3						
		41	"					"	5.5 V	"	"	"	"	"	S1						
		42	"					"	"	5.5 V	"	"	"	"	S2						
		43	"					"	5.5 V	"	5.5 V	"	"	"	Cn						
		44	"					0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	"	M	100					
		45	"					"	"	"	"	"	"	0.0 V	"						
		46	"					"	"	"	"	"	"	7.0 V	"						
		47	"					"	"	"	7.0 V	"	"	0.0 V	"						
		48	"					"	7.0 V	"	0.0 V	"	"	"	"						
I _{L1}	I _{L1}	3009	58	"				0.0 V	"	"	"	"	"	"	$\bar{A}3$						
	I _{L2}	"	59	"				"	"	"	"	"	"	"	B 0						
		60	"					"	"	"	"	"	"	"	$\bar{B}1$						
		61	"					"	0.5 V	"	"	"	"	"	$\bar{B}2$						
		62	"					0.5 V	"	5.5 V	"	"	"	"	$\bar{B}3$						
		63	"					5.5 V	"	"	"	"	"	"	S0						
		64	"					"	"	"	"	"	"	"	S3						
		65	"					"	"	0.5 V	"	"	"	"	S1						
		66	"					"	0.5 V	"	5.5 V	"	"	"	$\bar{A}2$						
		67	"					"	5.5 V	"	"	"	"	"	$\bar{A}3$						
I _{L3}	I _{L3}	"	68	"				"	0.0 V	"	0.0 V	"	"	"	S0						
		69	"					"	0.0 V	"	0.0 V	"	"	"	S3						
		70	"					"	0.0 V	"	0.0 V	"	"	"	$\bar{S}2$						
		71	"					0.0 V	5.5 V	"	"	"	"	"	Cn						
	I _{OS}	3011	72	"				0.0 V	0.0 V	"	0.5 V	"	"	"	\bar{G}	-60	-150				
I _{H4}	I _{H4}	"	73	"				0.0 V	0.0 V	"	0.5 V	"	"	"	Cn + 4						
	I _{H4}	"	74	0.0 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	"	"	"	\bar{P}						
	I _{H4}	"	75	"				"	"	"	"	"	"	"	$\bar{F}0$						
I _F	I _F	"	76	"				"	"	"	"	"	"	"	$\bar{F}1$						
	I _F	"	77	"				"	"	"	"	"	"	"	$\bar{F}2$						
	I _F	"	78	0.0 V	"	"	"	"	"	"	"	"	"	"	$\bar{F}3$						

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type 01 - Continued.
Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3 1/ Test no.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Measured terminal	Limits	Unit
TC = 25°C	I ₀₀		79	4.5 V	4.5 V	4.5 V	GND	4.5 V	GND	60 mA										
			80	"	"	"	GND	C _H +4	"	"										
			81	"	"	"	GND	4.5 V	4.5 V	GND	P̄	"	"							
			82	"	"	GND	4.5 V	"	"	4.5 V	F̄ 0	"	"							
			83	"	"	"	"	"	"	"	"	"	"	"	"	"	F̄ 1	"	"	
			84	"	"	"	"	"	"	"	"	"	"	"	"	"	F̄ 2	"	"	
			85	"	"	"	"	"	"	"	"	"	"	"	"	"	F̄ 3	"	"	
			86	"	"	"	"	"	"	"	"	"	"	"	"	"	A = B	"	"	
	I _{CC1}	3005	87	0.0 V	0.0 V	5.5 V	V _{CC}	65	"											
	I _{CC2}	3005	88	0.0 V	5.5 V	V _{CC}	65	"												
2	Same tests, terminal conditions, and limits as for subgroup 1, except T _c = +125°C and V _{Ic} tests are omitted.																			
3	Same tests, terminal conditions, and limits as for subgroup 1, except T _c = +55°C and V _{Ic} tests are omitted.																			
TC = 25°C	7	Functional 3/ 2014	89	A	B	A	B	B	B	B	B	B	B	B	B	B	L	L	GND	
			90	B	"	A	"	A	"	A	"	A	"	A	"	A	L	L	L	
			91	A	"	B	B	"	B	"	B	"	B	"	B	"	H	H	H	
			92	B	A	A	B	"	B	"	B	"	B	"	B	"	L	H	L	
			93	A	B	B	A	"	A	"	A	"	A	"	A	"	L	"	"	
			94	B	"	A	B	"	B	"	B	"	B	"	B	"	H	"	"	
			95	"	"	B	B	"	B	"	B	"	B	"	B	"	H	"	"	
			96	"	"	A	"	A	"	A	"	A	"	A	"	A	L	"	"	
			97	"	A	"	A	"	A	"	A	"	A	"	A	"	H	"	"	
			98	"	B	"	A	"	A	"	A	"	A	"	A	"	L	"	"	
			99	A	"	A	"	A	"	B	"	B	"	B	"	B	H	L	H	
			100	B	"	A	"	B	"	B	"	B	"	B	"	B	L	H	L	
			101	A	"	B	"	B	"	A	"	A	"	A	"	A	H	H	L	
			102	A	"	B	A	"	B	"	A	"	B	"	B	"	H	L	L	
			103	B	"	A	B	"	B	"	A	"	B	"	A	"	L	H	L	
			104	B	"	B	"	B	"	B	"	B	"	B	"	B	L	H	L	
			105	A	A	"	B	"	B	"	B	"	B	"	B	"	H	L	H	
			106	B	A	"	"	"	"	"	"	"	A	"	A	"	H	L	H	
			107	"	B	"	"	"	"	"	"	"	B	"	B	"	L	H	L	
			108	"	"	"	"	"	"	"	"	"	"	"	"	"	L	"	"	
			109	A	"	"	"	"	"	"	"	"	"	"	"	"	L	"	"	
			110	B	"	"	"	A	"	"	"	"	A	"	"	"	L	"	"	
			111	A	A	"	"	A	"	"	"	"	A	"	"	"	H	L	H	
			112	"	B	A	"	B	"	B	"	B	"	B	"	B	L	H	L	
			113	"	A	B	A	"	A	"	A	"	A	"	A	"	H	L	H	
			114	B	A	"	B	"	B	"	A	"	A	"	A	"	H	L	H	
			115	"	B	"	A	"	B	"	B	"	B	"	B	"	L	H	L	
			116	"	B	A	"	B	"	A	"	B	"	B	"	B	L	H	L	
			117	A	"	"	"	A	"	A	"	A	"	A	"	A	H	L	H	
			118	A	A	"	B	"	B	"	B	"	B	"	B	"	L	H	H	
			119	B	B	"	A	"	A	"	A	"	A	"	A	"	H	L	H	
			120	A	B	"	B	"	B	"	A	"	A	"	A	"	L	H	L	
			121	"	A	A	"	A	"	B	"	B	"	B	"	B	L	H	L	
			122	"	B	A	"	B	"	A	"	B	"	B	"	B	L	H	L	
			123	B	A	B	"	A	"	A	"	A	"	A	"	A	H	L	H	
			124	A	A	"	B	"	B	"	A	"	A	"	A	"	L	H	H	
			125	A	B	"	B	"	B	"	A	"	A	"	A	"	L	H	L	
			126	B	A	"	A	"	B	"	A	"	B	"	B	"	L	H	L	
			127	B	B	"	A	"	A	"	B	"	A	"	B	"	L	H	H	
			128	A	A	"	A	"	A	"	B	"	A	"	B	"	H	H	H	

8 Repeat subgroups 7 at T_c = +125°C and T_c = -55°C.
See footnotes at end of device type 01.

TABLE III. Group A inspection for device type Q1 - Continued.
Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3 1/	13	14	15	16	17	18	19	20	21	23	24	25	26	27	28	Measured terminal	Limits	Unit
T _c = 25°C	I _{DD}		79	A = B	—	Cn+4	—	—	—	—	—	—	—	—	—	—	—	—	—	mA	
			80			2.5V		2.5V	GND	4.5V	—	60									
			81						4.5V	—	—	—	—	—	—	—	—	—	Cn + 4	"	
			82							GND	—	—	—	—	—	—	—	—	—	P	
			83								—	—	—	—	—	—	—	—	—	F 0	
			84								—	—	—	—	—	—	—	—	—	F 1	
			85			2.5V					—	—	—	—	—	—	—	—	—	F 2	
			86			2.5V					—	—	—	—	—	—	—	—	—	F 3	
	I _{CC4}	3005	87							4.5V	—	—	—	—	—	—	—	—	A = B	"	
	I _{CC4}	3005	88						0.0V	5.5V	V _{CC}	65									
2 Same tests, terminal conditions, and limits as for subgroup 1, except T _c = +125°C and V _{CC} tests are omitted.																					
3 Same tests, terminal conditions, and limits as for subgroup 1, except T _c = -55°C and V _{CC} tests are omitted.																					
T _c = 25°C	7	Functional 2/	3014	89	L	L	H	L	H	L	A	B	B	B	B	B	B	B	All outputs	"	
			90	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A	"	
			91	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B	"	
			92	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A	"	
			93	H	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B	"	
			94	H	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A	"	
			95	L	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A	"	
			96	L	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B	"	
			97	H	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A	"	
			98	H	"	L	"	"	"	"	"	"	"	"	"	"	"	"	B	"	
			99	L	"	H	"	"	"	"	"	"	"	"	"	"	"	"	A	"	
			100	L	"	H	"	L	H	"	"	"	"	"	"	"	"	"	A	"	
			101	H	"	L	H	L	H	"	"	"	"	"	"	"	"	"	B	"	
			102	H	"	H	L	H	"	"	"	"	"	"	"	"	"	"	A	"	
			103	L	"	L	H	L	H	"	"	"	"	"	"	"	"	"	B	"	
			104	L	"	H	"	"	"	"	"	"	"	"	"	"	"	"	A	"	
			105	H	"	H	"	"	"	"	"	"	"	"	"	"	"	"	A	"	
			106	L	"	H	"	"	"	"	"	"	"	"	"	"	"	"	B	"	
			107	H	"	H	L	H	"	"	"	"	"	"	"	"	"	"	A	"	
			108	L	"	H	L	H	L	"	"	"	"	"	"	"	"	"	B	"	
			109	H	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A	"	
			110	L	"	"	L	H	"	"	"	"	"	"	"	"	"	"	A	"	
			111	H	"	H	"	H	L	"	"	"	"	"	"	"	"	"	B	"	
			112	H	"	H	L	H	L	"	"	"	"	"	"	"	"	"	A	"	
			113	L	"	L	H	L	H	"	"	"	"	"	"	"	"	"	A	"	
			114	H	"	L	H	L	H	"	"	"	"	"	"	"	"	"	B	"	
			115	H	"	H	"	H	L	"	"	"	"	"	"	"	"	"	A	"	
			116	L	"	H	"	L	H	"	"	"	"	"	"	"	"	"	B	"	
			117	H	"	H	"	H	L	"	"	"	"	"	"	"	"	"	A	"	
			118	L	"	L	H	L	H	"	"	"	"	"	"	"	"	"	B	"	
			119	H	"	H	"	H	L	"	"	"	"	"	"	"	"	"	A	"	
			120	L	"	L	H	L	H	"	"	"	"	"	"	"	"	"	B	"	
			121	H	"	H	"	L	H	"	"	"	"	"	"	"	"	"	A	"	
			122	"	L	H	"	L	H	"	"	"	"	"	"	"	"	"	B	"	
			123	L	"	L	H	L	H	"	"	"	"	"	"	"	"	"	A	"	
			124	H	"	H	"	H	L	"	"	"	"	"	"	"	"	"	B	"	
			125	L	"	H	"	L	H	"	"	"	"	"	"	"	"	"	A	"	
			126	L	"	H	"	L	H	"	"	"	"	"	"	"	"	"	A	"	
			127	H	"	H	"	H	L	"	"	"	"	"	"	"	"	"	B	"	
			128	H	"	H	"	H	L	"	"	"	"	"	"	"	"	"	A	"	

⁸ Repeat subgroups 7 at T_c = +125°C and T_c = -55°C.

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type 01 - Continued.
Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3 1/ Test no.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Measured terminal	Limits	Unit
Tc = 25°C	t _{PHL1}	Fig. 4	3003	129	0.0 V	IN	S3	S2	S1	S0	Cn	M	̄F 0	̄F 1	̄F 2	GND	̄A 0 to ̄F 0	3.0	10.0	ns
			"	130	"	0.0 V	"	"	"	"	"	"	OUT	"	"	"	̄A 1 to ̄F 1	"	"	"
			"	131	"	"	"	"	"	"	"	"	OUT	"	"	"	̄A 2 to ̄F 2	"	"	"
			"	132	"	"	"	"	"	"	"	"	OUT	"	"	"	̄A 3 to ̄F 3	"	"	"
			"	133	N	"	"	"	"	"	"	"	OUT	"	"	"	̄B 0 to ̄F 0	"	"	"
			"	134	0.0 V	"	"	"	"	"	"	"	OUT	"	"	"	̄B 1 to ̄F 1	"	"	"
			"	135	"	"	"	"	"	"	"	"	OUT	"	"	"	̄B 2 to ̄F 2	"	"	"
			"	136	"	"	"	"	"	"	"	"	OUT	"	"	"	̄B 3 to ̄F 3	"	"	"
			"	137	"	IN	"	"	"	"	"	"	OUT	"	"	"	̄A 0 to ̄F 0	9.0	"	"
			"	138	"	0.0 V	"	"	"	"	"	"	OUT	"	"	"	̄A 1 to ̄F 1	"	"	"
			"	139	"	"	"	"	"	"	"	"	OUT	"	"	"	̄A 2 to ̄F 2	"	"	"
			"	140	"	"	"	"	"	"	"	"	OUT	"	"	"	̄A 3 to ̄F 3	"	"	"
			"	141	N	"	"	"	"	"	"	"	OUT	"	"	"	̄B 0 to ̄F 0	"	"	"
			"	142	0.0 V	"	"	"	"	"	"	"	OUT	"	"	"	̄B 1 to ̄F 1	"	"	"
			"	143	"	"	"	"	"	"	"	"	OUT	"	"	"	̄B 2 to ̄F 2	"	"	"
			"	144	"	"	"	"	"	"	"	"	OUT	"	"	"	̄B 3 to ̄F 3	"	"	"
t _{PHL2}			"	145	IN	2.7 V	"	"	"	"	2.7 V	"	OUT	"	"	"	̄B 0 to ̄F 3	4.0	10.0	"
			"	146	0.0 V	IN	"	"	"	"	0.0 V	"	OUT	"	"	"	̄A 0 to ̄F 1	"	"	"
			"	147	"	"	"	"	"	"	"	"	OUT	"	"	"	̄A 0 to ̄F 2	"	"	"
			"	148	"	"	"	"	"	"	"	"	OUT	"	"	"	̄A 0 to ̄F 3	"	"	"
			"	149	"	2.7 V	"	"	"	"	"	"	OUT	"	"	"	̄A 2 to ̄F 3	"	"	"
			"	150	"	"	"	"	"	"	"	"	OUT	"	"	"	̄A 1 to ̄F 2	"	"	"
			"	151	"	"	"	"	"	"	"	"	OUT	"	"	"	̄A 1 to ̄F 3	"	"	"
			"	152	N	"	"	"	"	"	2.7 V	"	OUT	"	"	"	̄B 0 to ̄F 3	"	10.5	"
			"	153	0.0 V	IN	"	"	"	"	0.0 V	"	OUT	"	"	"	̄A 0 to ̄F 1	"	"	"
			"	154	"	"	"	"	"	"	"	"	OUT	"	"	"	̄A 0 to ̄F 2	"	"	"
			"	155	"	"	"	"	"	"	"	"	OUT	"	"	"	̄A 0 to ̄F 3	"	"	"
			"	156	"	2.7 V	"	"	"	"	"	"	OUT	"	"	"	̄A 2 to ̄F 3	"	"	"
			"	157	"	"	"	"	"	"	"	"	OUT	"	"	"	̄A 1 to ̄F 2	"	"	"
			"	158	"	"	"	"	"	"	"	"	OUT	"	"	"	̄A 1 to ̄F 3	"	"	"

See footnotes at end of device type 01.

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

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3 1/	Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).												Measured terminal	Limits	Unit
				13	14	15	16	17	18	19	20	21	23	24	25			
9 $T_C = 25^\circ\text{C}$	t_{PHL1}	Fig. 4 3003	129	A = B $\bar{F} 3$	\bar{P}	Cn+4 \bar{G}	$\bar{A} 3$	$\bar{B} 2$	$\bar{A} 2$	$\bar{B} 1$	$\bar{A} 1$	V_{CC}						
			130				0.0V	0.0V	0.0V	0.0V	0.0V	5.0V				$\bar{A} 0\text{lo}\bar{F} 0$	3.0	10.0
			131				"	"	"	0.0V	"	"	IN	"		$\bar{A} 1\text{lo}\bar{F} 1$	"	"
			132	OUT			"	"	"	IN	"		0.0V	"		$\bar{A} 2\text{lo}\bar{F} 2$	"	"
			133				"	"	"	IN	"		0.0V	"		$\bar{A} 3\text{lo}\bar{F} 3$	"	"
			134				"	"	"	IN	"		0.0V	"		$\bar{B} 0\text{lo}\bar{F} 0$	"	"
			135				"	"	"	IN	"		0.0V	"		$\bar{B} 1\text{lo}\bar{F} 1$	"	"
			136	OUT			IN	"	"	0.0V	"		"	"		$\bar{B} 2\text{lo}\bar{F} 2$	"	"
			137				0.0V	"	"	IN	"		"	"		$\bar{B} 3\text{lo}\bar{F} 3$	"	"
			138				"	"	"	IN	"		"	"		$\bar{A} 0\text{lo}\bar{F} 0$	9.0	"
			139				"	"	"	IN	"		0.0V	"		$\bar{A} 1\text{lo}\bar{F} 1$	"	"
			140	OUT			IN	"	"	IN	"		0.0V	"		$\bar{A} 2\text{lo}\bar{F} 2$	"	"
			141				0.0V	"	"	IN	"		"	"		$\bar{A} 3\text{lo}\bar{F} 3$	"	"
			142				"	"	"	IN	"		0.0V	"		$\bar{B} 0\text{lo}\bar{F} 0$	"	"
			143				"	"	"	IN	"		0.0V	"		$\bar{B} 1\text{lo}\bar{F} 1$	"	"
			144	OUT			IN	"	"	0.0V	"		"	"		$\bar{B} 2\text{lo}\bar{F} 2$	"	"
			145	OUT			0.0V	2.7V	"	2.7V	"		2.7V	"		$\bar{B} 3\text{lo}\bar{F} 3$	"	"
10 $T_C = 100^\circ\text{C}$	t_{PHL2}	Fig. 4 3003	146				"	0.0V	"	0.0V	"		0.0V	"		$\bar{B} 0\text{lo}\bar{F} 3$	4.0	10.0
			147				"	"	"	0.0V	"		2.7V	"		$\bar{A} 0\text{lo}\bar{F} 1$	"	"
			148	OUT			"	"	"	2.7V	"		"	"		$\bar{A} 0\text{lo}\bar{F} 3$	"	"
			149	OUT			"	"	"	IN	"		"	"		$\bar{A} 2\text{lo}\bar{F} 3$	"	"
			150				"	"	"	0.0V	"		IN	"		$\bar{A} 1\text{lo}\bar{F} 2$	"	"
			151	OUT			"	"	"	2.7V	"		IN	"		$\bar{A} 1\text{lo}\bar{F} 3$	"	"
			152	OUT			"	2.7V	"	2.7V	"		2.7V	"		$\bar{B} 0\text{lo}\bar{F} 3$	10.5	"
			153				"	0.0V	"	0.0V	"		0.0V	"		$\bar{A} 0\text{lo}\bar{F} 1$	"	"
			154				"	"	"	0.0V	"		2.7V	"		$\bar{A} 0\text{lo}\bar{F} 2$	"	"
			155	OUT			"	"	"	2.7V	"		"	"		$\bar{A} 0\text{lo}\bar{F} 3$	"	"
			156	OUT			"	"	"	IN	"		"	"		$\bar{A} 2\text{lo}\bar{F} 3$	"	"
			157				"	"	"	0.0V	"		IN	"		$\bar{A} 1\text{lo}\bar{F} 2$	"	"
			158	OUT			"	"	"	2.7V	"		IN	"		$\bar{A} 1\text{lo}\bar{F} 3$	"	"

See footnotes at end of device type 01.

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

Subgroup	Symbol	MIL-STD-883 method	Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).												Measured terminal	Limits	Unit
			1	2	3	4	5	6	7	8	9	10	11	12			
Tc = 25°C	t _{PH43}	Fig. 4	159	0.0 V	IN	2.7 V	0.0 V	2.7 V	0.0 V	2.7 V	0.0 V	Cn	M	Ā 0	Ā 0 to Cn + 4	3.5	12.0
			160	2.7 V	0.0 V	"	"	"	"	"	"	Ā 1	Ā 1 to Cn + 4	"	"	"	ns
			161	"	"	"	"	"	"	"	"	Ā 2	Ā 2 to Cn + 4	"	"	"	"
			162	"	"	"	"	"	"	"	"	Ā 3	Ā 3 to Cn + 4	"	"	"	"
			163	IN	"	"	"	"	"	"	"	B 0	B 0 to Cn + 4	"	"	"	"
			164	2.7 V	"	"	"	"	"	"	"	B 1	B 1 to Cn + 4	"	"	"	"
			165	"	"	"	"	"	"	"	"	B 2	B 2 to Cn + 4	"	"	"	"
			166	"	"	"	"	"	"	"	"	B 3	B 3 to Cn + 4	"	"	"	"
			167	0.0 V	IN	"	"	"	"	"	"	"	A 0	A 0 to Cn + 4	5.0	13.0	
			168	2.7 V	0.0 V	"	"	"	"	"	"	Ā 1	Ā 1 to Cn + 4	"	"	"	"
t _{PH44}	t _{PH44}	Fig. 4	169	"	"	"	"	"	"	"	"	Ā 2	Ā 2 to Cn + 4	"	"	"	"
			170	"	"	"	"	"	"	"	"	Ā 3	Ā 3 to Cn + 4	"	"	"	"
			171	IN	"	"	"	"	"	"	"	B 0	B 0 to Cn + 4	"	"	"	"
			172	2.7 V	"	"	"	"	"	"	"	B 1	B 1 to Cn + 4	"	"	"	"
			173	"	"	"	"	"	"	"	"	B 2	B 2 to Cn + 4	"	"	"	"
			174	"	"	"	"	"	"	"	"	B 3	B 3 to Cn + 4	"	"	"	"
			175	"	IN	"	"	"	"	"	"	Ā 0	Ā 0 to Ā P	3.0	7.5		
			176	0.0 V	0.0 V	"	"	"	"	"	"	Ā 1	Ā 1 to Ā P	"	"	"	"
			177	"	"	"	"	"	"	"	"	Ā 2	Ā 2 to Ā P	"	"	"	"
			178	"	"	"	"	"	"	"	"	Ā 3	Ā 3 to Ā P	"	"	"	"
t _{PH44}	t _{PH44}	Fig. 4	179	IN	2.7 V	"	"	"	"	"	"	B 0	B 0 to Ā P	"	"	"	"
			180	0.0 V	0.0 V	"	"	"	"	"	"	B 1	B 1 to Ā P	"	"	"	"
			181	"	"	"	"	"	"	"	"	B 2	B 2 to Ā P	"	"	"	"
			182	"	"	"	"	"	"	"	"	B 3	B 3 to Ā P	"	"	"	"
			183	2.7 V	IN	"	"	"	"	"	"	Ā 0	Ā 0 to Ā P	2.5	"	"	"
			184	0.0 V	0.0 V	"	"	"	"	"	"	Ā 1	Ā 1 to Ā P	"	"	"	"
			185	"	"	"	"	"	"	"	"	Ā 2	Ā 2 to Ā P	"	"	"	"
			186	"	"	"	"	"	"	"	"	Ā 3	Ā 3 to Ā P	"	"	"	"
			187	IN	2.7 V	"	"	"	"	"	"	B 0	B 0 to Ā P	"	"	"	"
			188	0.0 V	0.0 V	"	"	"	"	"	"	B 1	B 1 to Ā P	"	"	"	"
Tc = 100°C	t _{PH44}	Fig. 4	189	"	"	"	"	"	"	"	"	B 2	B 2 to Ā P	"	"	"	"
			190	"	"	"	"	"	"	"	"	B 3	B 3 to Ā P	"	"	"	"

See footnotes at end of device type 01.

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

Subgroup	Symbol	MIL-STD-883 method	Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).												Measured terminal	Limits	Unit		
			Cases J, K, L Case 3 / 1 /	13	14	15	16	17	18	19	20	21	23	24	25	26	27	28	
9 $T_C = 25^\circ C$	t_{PHL3}	3003 Fig. 4	159		A = B	\bar{P}	Cn+4	\bar{G}	$\bar{B}3$	$\bar{A}3$	$\bar{B}2$	$\bar{A}2$	$\bar{B}1$	$\bar{A}1$	V_{CC}	5.0V	$\bar{A}0\text{ to }Cn+4$	3.5	12.0
		160				OUT			2.7V	0.0V	2.7V	0.0V	2.7V	0.0V	IN	"	$\bar{A}1\text{ to }Cn+4$	"	"
		161					"	"	"	2.7V	0.0V	0.0V	2.7V	0.0V	"	"	$\bar{A}2\text{ to }Cn+4$	"	"
		162					"	"	"	0.0V	IN	"	"	"	"	"	$\bar{A}3\text{ to }Cn+4$	"	"
		163					"	"	"	2.7V	0.0V	2.7V	0.0V	"	"	"	$\bar{B}0\text{ to }Cn+4$	"	"
		164					"	"	"	"	"	"	"	"	"	"	$\bar{B}1\text{ to }Cn+4$	"	"
		165					"	"	"	"	"	"	"	"	"	"	$\bar{B}2\text{ to }Cn+4$	"	"
		166					"	"	"	IN	"	"	2.7V	"	"	"	$\bar{B}3\text{ to }Cn+4$	"	"
	t_{PLH3}	"	167				"	"	"	2.7V	"	"	"	"	"	"	$\bar{A}0\text{ to }Cn+4$	5.0	13.0
		168					"	"	"	"	"	"	0.0V	IN	"	"	$\bar{A}1\text{ to }Cn+4$	"	"
10 $T_C = 100^\circ C$	t_{PHL4}	"	169				"	"	"	0.0V	IN	"	2.7V	0.0V	"	"	$\bar{A}2\text{ to }Cn+4$	"	"
		170					"	"	"	0.0V	IN	"	2.7V	0.0V	"	"	$\bar{A}3\text{ to }Cn+4$	"	"
		171					"	"	"	2.7V	0.0V	"	"	"	"	"	$\bar{B}0\text{ to }Cn+4$	"	"
		172					"	"	"	"	"	"	IN	"	"	"	$\bar{B}1\text{ to }Cn+4$	"	"
		173					"	"	"	"	"	"	IN	"	"	"	$\bar{B}2\text{ to }Cn+4$	"	"
		174					"	"	"	IN	"	"	2.7V	"	"	"	$\bar{B}3\text{ to }Cn+4$	"	"
		175					"	"	"	0.0V	"	"	0.0V	"	"	"	$\bar{A}0\text{ to }\bar{P}$	3.0	7.5
		176					"	"	"	0.0V	"	"	2.7V	IN	"	"	$\bar{A}1\text{ to }\bar{P}$	"	"
		177					"	"	"	"	"	"	2.7V	IN	0.0V	0.0V	$\bar{A}2\text{ to }\bar{P}$	"	"
		178					"	"	"	2.7V	IN	0.0V	0.0V	"	"	"	$\bar{A}3\text{ to }\bar{P}$	"	"
11 $T_C = 150^\circ C$	t_{PLH4}	"	179				"	"	"	0.0V	"	"	"	"	"	"	$\bar{B}0\text{ to }\bar{P}$	"	"
		180					"	"	"	"	"	"	IN	"	2.7V	"	$\bar{B}1\text{ to }\bar{P}$	"	"
		181					"	"	"	IN	"	"	2.7V	0.0V	"	"	$\bar{B}2\text{ to }\bar{P}$	"	"
		182					"	"	"	IN	"	"	2.7V	0.0V	"	"	$\bar{B}3\text{ to }\bar{P}$	"	"
		183					"	"	"	0.0V	"	"	"	"	"	"	$\bar{A}0\text{ to }\bar{P}$	2.5	"
		184					"	"	"	"	"	"	2.7V	IN	0.0V	0.0V	$\bar{A}1\text{ to }\bar{P}$	"	"
		185					"	"	"	"	"	"	2.7V	IN	"	"	$\bar{A}2\text{ to }\bar{P}$	"	"
		186					"	"	"	2.7V	IN	0.0V	0.0V	"	"	"	$\bar{A}3\text{ to }\bar{P}$	"	"
		187					"	"	"	0.0V	"	"	"	"	"	"	$\bar{B}0\text{ to }\bar{P}$	"	"
		188					"	"	"	"	"	"	IN	"	2.7V	"	$\bar{B}1\text{ to }\bar{P}$	"	"
12 $T_C = 200^\circ C$		189					"	"	"	IN	"	"	2.7V	0.0V	"	"	$\bar{B}2\text{ to }\bar{P}$	"	"
		190					"	"	"	IN	"	"	2.7V	0.0V	"	"	$\bar{B}3\text{ to }\bar{P}$	"	"

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type 01 - Continued.
Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3 1/ Test no.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Measured terminal	Limits	Unit
9	t_{PH5}	3003	191	0.0 V	2.7 V	0.0 V	2.7 V	0.0 V	2.7 V	IN	0.0 V	OUT	\bar{F}_0	\bar{F}_1	\bar{F}_2	GND	Cn to \bar{F}_0	3.0	8.5	ns
Tc = 25°C	t_{PH6}	Fig. 4	192	"	2.7 V	"	"	"	"	IN	"	OUT	"	"	"	Cn to \bar{F}_0	3.0	8.5	"	
	t_{PH6}	"	193	"	IN	"	"	"	"	0.0 V	"	"	"	"	"	$\bar{A} 0$ to \bar{G}	2.5	7.5	"	
		"	194	"	2.7 V	0.0 V	"	"	"	"	"	"	"	"	"	$\bar{A} 1$ to \bar{G}	"	"	"	
		"	195	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A} 2$ to \bar{G}	"	"	"	
		"	196	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A} 3$ to \bar{G}	"	"	"	
		"	197	IN	"	"	"	"	"	"	"	"	"	"	"	$\bar{B} 0$ to \bar{G}	"	"	"	
		"	198	"	2.7 V	"	"	"	"	"	"	"	"	"	"	$\bar{B} 1$ to \bar{G}	"	"	"	
		"	199	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B} 2$ to \bar{G}	"	"	"	
		"	200	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B} 3$ to \bar{G}	"	"	"	
		"	201	0.0 V	IN	"	"	"	"	"	"	"	"	"	"	$\bar{A} 0$ to \bar{G}	"	"	"	
		"	202	2.7 V	0.0 V	"	"	"	"	"	"	"	"	"	"	$\bar{A} 1$ to \bar{G}	"	"	"	
		"	203	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A} 2$ to \bar{G}	"	"	"	
		"	204	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A} 3$ to \bar{G}	"	"	"	
		"	205	IN	"	"	"	"	"	"	"	"	"	"	"	$\bar{B} 0$ to \bar{G}	"	"	"	
		"	206	2.7 V	"	"	"	"	"	"	"	"	"	"	"	$\bar{B} 1$ to \bar{G}	"	"	"	
		"	207	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B} 2$ to \bar{G}	"	"	"	
		"	208	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B} 3$ to \bar{G}	"	"	"	
		"	209	0.0 V	2.7 V	"	"	"	"	IN	"	"	"	"	"	Cn to Cn + 4	3.0	8.0	"	
		"	210	"	2.7 V	IN	"	"	"	IN	"	"	"	"	"	Cn to Cn + 4	"	8.5	"	
		"	211	"	"	0.0 V	2.7 V	0.0 V	2.7 V	0.0 V	"	OUT	"	"	"	$\bar{A} 0$ to \bar{F}_0	"	11.0	"	
		"	212	"	"	2.7 V	"	"	"	"	"	OUT	"	"	"	$\bar{A} 1$ to \bar{F}_1	"	"	"	
		"	213	"	"	"	"	"	"	"	"	OUT	"	"	"	$\bar{A} 2$ to \bar{F}_2	"	"	"	
		"	214	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A} 3$ to \bar{F}_3	"	"	"	
		"	215	IN	"	"	"	"	"	"	"	OUT	"	"	"	$\bar{B} 0$ to \bar{F}_0	"	"	"	
		"	216	0.0 V	"	"	"	"	"	"	"	OUT	"	"	"	$\bar{B} 1$ to \bar{F}_1	"	"	"	
		"	217	"	"	"	"	"	"	"	"	OUT	"	"	"	$\bar{B} 2$ to \bar{F}_2	"	"	"	
		"	218	"	"	"	"	"	"	"	"	OUT	"	"	"	$\bar{B} 3$ to \bar{F}_3	"	"	"	
		"	219	"	IN	"	"	"	"	"	"	OUT	"	"	"	$\bar{A} 0$ to \bar{F}_0	"	12.0	"	
		"	220	"	2.7 V	"	"	"	"	"	"	OUT	"	"	"	$\bar{A} 1$ to \bar{F}_1	"	"	"	
		"	221	"	"	"	"	"	"	"	"	OUT	"	"	"	$\bar{A} 2$ to \bar{F}_2	"	"	"	
		"	222	"	"	"	"	"	"	"	"	OUT	"	"	"	$\bar{A} 3$ to \bar{F}_3	"	"	"	
		"	223	IN	"	"	"	"	"	"	"	OUT	"	"	"	$\bar{B} 0$ to \bar{F}_0	"	"	"	
		"	224	0.0 V	"	"	"	"	"	"	"	OUT	"	"	"	$\bar{B} 1$ to \bar{F}_1	"	"	"	
		"	225	"	"	"	"	"	"	"	"	OUT	"	"	"	$\bar{B} 2$ to \bar{F}_2	"	"	"	
		"	226	"	"	"	"	"	"	"	"	OUT	"	"	"	$\bar{B} 3$ to \bar{F}_3	"	"	"	

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type Q1 - Continued.
Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3 1/	13	14	15	16	17	18	19	20	21	23	24	25	26	27	28	Measured terminal	Limits	Unit		
9	t_{pHL5}	3003	\bar{F} 3	A = B	\bar{P}	Cn+4	\bar{G}	\bar{B} 3	\bar{A} 3	\bar{B} 2	\bar{A} 2	\bar{B} 1	\bar{A} 1	V_{cc}	0.0 V	2.7 V	0.0 V	2.7 V	5.0 V	$\text{Cn to } \bar{F} 0$	3.0	8.5	ns
Tc = 25°C	t_{pHL6}	Fig. 4	192			OUT		0.0 V	2.7 V	0.0 V	2.7 V	0.0 V	2.7 V	"	"	$\text{Cn to } \bar{F} 0$	3.0	8.5	"				
		"	193					"	"	2.7 V	0.0 V	2.7 V	0.0 V	"	"	$\bar{A} 0 \text{ to } \bar{G}$	2.5	7.5	"				
		"	194					"	"	2.7 V	0.0 V	0.0 V	"	"	"	$\bar{A} 1 \text{ to } \bar{G}$	"	"	"				
		"	195					"	"	0.0 V	IN	2.7 V	0.0 V	"	"	$\bar{A} 2 \text{ to } \bar{G}$	"	"	"				
		"	196					"	0.0 V	IN	2.7 V	0.0 V	"	"	"	$\bar{A} 3 \text{ to } \bar{G}$	"	"	"				
		"	197					"	2.7 V	0.0 V	"	"	"	"	"	$\bar{B} 0 \text{ to } \bar{G}$	"	"	"				
		"	198					"	"	"	"	"	IN	"	"	$\bar{B} 1 \text{ to } \bar{G}$	"	"	"				
		"	199					"	"	IN	"	2.7 V	"	"	"	$\bar{B} 2 \text{ to } \bar{G}$	"	"	"				
		"	200					"	IN	"	2.7 V	"	"	"	"	$\bar{B} 3 \text{ to } \bar{G}$	"	"	"				
	t_{pHL6}	"	201					"	2.7 V	"	"	"	"	"	"	$\bar{A} 0 \text{ to } \bar{G}$	"	"	"				
		"	202					"	"	"	"	"	0.0 V	IN	"	$\bar{A} 1 \text{ to } \bar{G}$	"	"	"				
		"	203					"	"	0.0 V	IN	2.7 V	0.0 V	"	"	$\bar{A} 2 \text{ to } \bar{G}$	"	"	"				
		"	204					"	0.0 V	IN	2.7 V	0.0 V	"	"	"	$\bar{A} 3 \text{ to } \bar{G}$	"	"	"				
		"	205					"	2.7 V	0.0 V	"	"	"	"	"	$\bar{B} 0 \text{ to } \bar{G}$	"	"	"				
		"	206					"	"	"	"	"	IN	"	"	$\bar{B} 1 \text{ to } \bar{G}$	"	"	"				
		"	207					"	"	IN	"	2.7 V	"	"	"	$\bar{B} 2 \text{ to } \bar{G}$	"	"	"				
		"	208					"	IN	"	2.7 V	"	2.7 V	"	"	$\bar{B} 3 \text{ to } \bar{G}$	"	"	"				
	t_{pHL7}	"	209			OUT	0.0 V	2.7 V	0.0 V	2.7 V	0.0 V	2.7 V	"	"	$\text{Cn to } \bar{C}n + 4$	3.0	8.0	"					
	t_{pHL7}	"	210			OUT	"	"	"	"	"	"	"	"	$\text{Cn to } \bar{C}n - 4$	"	8.5	"					
	t_{pHL8}	"	211				"	"	"	"	"	"	"	"	$\bar{A} 0 \text{ to } \bar{F} 0$	"	11.0	"					
		"	212				"	"	"	"	"	"	IN	"	$\bar{A} 1 \text{ to } \bar{F} 1$	"	"	"					
		"	213				"	"	IN	"	2.7 V	"	2.7 V	"	$\bar{A} 2 \text{ to } \bar{F} 2$	"	"	"					
		"	214				"	IN	"	2.7 V	"	"	"	"	$\bar{A} 3 \text{ to } \bar{F} 3$	"	"	"					
		"	215				"	2.7 V	"	"	"	"	"	"	$\bar{B} 0 \text{ to } \bar{F} 0$	"	"	"					
		"	216				"	"	IN	"	0.0 V	"	"	"	$\bar{B} 1 \text{ to } \bar{F} 1$	"	"	"					
		"	217				"	"	IN	"	0.0 V	"	"	"	$\bar{B} 2 \text{ to } \bar{F} 2$	"	"	"					
		"	218				"	0.0 V	"	"	"	"	"	"	$\bar{B} 3 \text{ to } \bar{F} 3$	"	"	"					
	t_{pHL8}	"	219				"	2.7 V	"	"	"	"	"	"	$\bar{A} 0 \text{ to } \bar{F} 0$	"	12.0	"					
		"	220				"	"	"	"	"	"	IN	"	$\bar{A} 1 \text{ to } \bar{F} 1$	"	"	"					
		"	221				"	"	IN	"	2.7 V	"	"	"	$\bar{A} 2 \text{ to } \bar{F} 2$	"	"	"					
		"	222				"	IN	"	2.7 V	"	"	"	"	$\bar{A} 3 \text{ to } \bar{F} 3$	"	"	"					
		"	223				"	2.7 V	"	"	"	"	"	"	$\bar{B} 0 \text{ to } \bar{F} 0$	"	"	"					
		"	224				"	"	"	IN	"	"	"	"	$\bar{B} 1 \text{ to } \bar{F} 1$	"	"	"					
		"	225				"	"	IN	"	0.0 V	"	"	"	$\bar{B} 2 \text{ to } \bar{F} 2$	"	"	"					
		"	226				"	0.0 V	"	0.0 V	"	"	"	"	$\bar{B} 3 \text{ to } \bar{F} 3$	"	"	"					

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type 01 - Continued.
 Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3 1/ Test no.	1	2	3	4	5	6	7	8	9	10	11	12	Measured terminal	Limits	Unit
Tc = 25°C	t _{PHL9}	Fig. 4	227	0.0 V	IN	S3	S2	S1	S0	Cn	M	̄F 0	̄F 1	̄F 2	GND	̄A 0 to ̄F 0	3.0	10.0 ns
			228	"	0.0 V	"	"	"	"	"	0.0 V	2.7 V	OUT	"	"	̄A 1 to ̄F 1	"	"
			229	"	"	"	"	"	"	"	"	"	OUT	"	"	̄A 2 to ̄F 2	"	"
			230	"	"	"	"	"	"	"	"	"	OUT	"	"	̄A 3 to ̄F 3	"	"
			231	N	"	"	"	"	"	"	"	"	OUT	"	"	̄B 0 to ̄F 0	"	"
			232	0.0 V	"	"	"	"	"	"	"	"	OUT	"	"	̄B 1 to ̄F 1	"	"
			233	"	"	"	"	"	"	"	"	"	OUT	"	"	̄B 2 to ̄F 2	"	"
			234	"	"	"	"	"	"	"	"	"	OUT	"	"	̄B 3 to ̄F 3	"	"
	t _{PHL9}		235	"	IN	"	"	"	"	"	"	"	OUT	"	"	̄A 0 to ̄F 0	3.5	9.5 "
			236	"	0.0 V	"	"	"	"	"	"	"	OUT	"	"	̄A 1 to ̄F 1	"	"
Tc = 100°C			237	"	"	"	"	"	"	"	"	"	OUT	"	"	̄A 2 to ̄F 2	"	"
			238	"	"	"	"	"	"	"	"	"	OUT	"	"	̄A 3 to ̄F 3	"	"
			239	N	"	"	"	"	"	"	"	"	OUT	"	"	̄B 0 to ̄F 0	"	"
			240	0.0 V	"	"	"	"	"	"	"	"	OUT	"	"	̄B 1 to ̄F 1	"	"
			241	"	"	"	"	"	"	"	"	"	OUT	"	"	̄B 2 to ̄F 2	"	"
			242	"	"	"	"	"	"	"	"	"	OUT	"	"	̄B 3 to ̄F 3	"	"
	t _{PHL10}		243	IN	2.7 V	"	"	"	"	"	2.7 V	0.0 V	OUT	"	"	̄B 0 to ̄F 3	3.0	12.0 "
			244	2.7 V	IN	"	"	"	"	"	"	"	OUT	"	"	̄A 0 to ̄F 1	"	"
			245	"	"	"	"	"	"	"	"	"	OUT	"	"	̄A 0 to ̄F 2	"	"
			246	"	"	"	"	"	"	"	"	"	OUT	"	"	̄A 0 to ̄F 3	"	"
Tc = 150°C			247	"	2.7 V	"	"	"	"	"	"	"	OUT	"	"	̄A 2 to ̄F 3	"	"
			248	0.0 V	"	"	"	"	"	"	"	"	OUT	"	"	̄A 1 to ̄F 2	"	"
			249	0.0 V	"	"	"	"	"	"	2.7 V	"	OUT	"	"	̄A 1 to ̄F 3	"	"
	t _{PHL10}		250	N	"	"	"	"	"	"	2.7 V	"	OUT	"	"	̄B 0 to ̄F 3	4.0	"
			251	2.7 V	IN	"	"	"	"	"	0.0 V	"	OUT	"	"	̄A 0 to ̄F 1	"	"
			252	"	"	"	"	"	"	"	"	"	OUT	"	"	̄A 0 to ̄F 2	"	"
			253	"	"	"	"	"	"	"	"	"	OUT	"	"	̄A 0 to ̄F 3	"	"
			254	"	2.7 V	"	"	"	"	"	"	"	OUT	"	"	̄A 2 to ̄F 3	"	"
			255	0.0 V	"	"	"	"	"	"	"	"	OUT	"	"	̄A 1 to ̄F 2	"	"
			256	0.0 V	"	"	"	"	"	"	2.7 V	"	OUT	"	"	̄A 1 to ̄F 3	"	"

See footnotes at end of device type 01.

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

Subgroup	Symbol	MIL-STD-883 method	Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).												Measured terminal	Limits	Unit		
			Cases J, K, L Case 3 1/	13	14	15	16	17	18	19	20	21	23	24	25	26	27	28	
9 $T_C = 25^\circ\text{C}$	t_{PHL9} Fig. 4	Test no. 227	A = B \bar{F} 3	\bar{P}	Cn+4	\bar{G}	\bar{B} 3	\bar{A} 3	\bar{B} 2	\bar{A} 2	\bar{B} 1	\bar{A} 1	V_{CC}	0.0V	0.0V	5.0V	$\bar{A} 0 \text{ to } \bar{F} 0$	3.0	10.0 ns
		228					0.0V	0.0V	0.0V	0.0V	0.0V	0.0V	"	"	"	"	$\bar{A} 1 \text{ to } \bar{F} 1$	"	"
		229					"	"	"	0.0V	"	"	"	"	"	"	$\bar{A} 2 \text{ to } \bar{F} 2$	"	"
		230	OUT				"	"	"	"	"	"	"	"	"	"	$\bar{A} 3 \text{ to } \bar{F} 3$	"	"
		231					"	"	0.0V	"	"	"	"	"	"	"	$\bar{B} 0 \text{ to } \bar{F} 0$	"	"
		232					"	"	"	"	"	"	"	"	"	"	$\bar{B} 1 \text{ to } \bar{F} 1$	"	"
		233					"	"	"	"	"	"	"	"	"	"	$\bar{B} 2 \text{ to } \bar{F} 2$	"	"
		234	OUT				"	"	"	0.0V	"	"	"	"	"	"	$\bar{B} 3 \text{ to } \bar{F} 3$	"	"
		235					0.0V	"	"	"	"	"	"	"	"	"	$\bar{A} 0 \text{ to } \bar{F} 0$	3.5	9.5 "
		236					"	"	"	"	"	"	"	"	"	"	$\bar{A} 1 \text{ to } \bar{F} 1$	"	"
t_{PHL10}		237					"	"	"	"	"	"	"	"	"	"	$\bar{A} 2 \text{ to } \bar{F} 2$	"	"
		238	OUT				"	"	"	"	"	"	"	"	"	"	$\bar{A} 3 \text{ to } \bar{F} 3$	"	"
		239					"	0.0V	"	"	"	"	"	"	"	"	$\bar{B} 0 \text{ to } \bar{F} 0$	"	"
		240					"	"	"	"	"	"	"	"	"	"	$\bar{B} 1 \text{ to } \bar{F} 1$	"	"
		241					"	"	"	"	"	"	"	"	"	"	$\bar{B} 2 \text{ to } \bar{F} 2$	"	"
		242	OUT				"	"	"	0.0V	"	"	"	"	"	"	$\bar{B} 3 \text{ to } \bar{F} 3$	"	"
		243	OUT				0.0V	2.7V	"	"	"	"	"	"	"	"	$\bar{B} 0 \text{ to } \bar{F} 3$	3.0	12.0 "
		244					"	0.0V	"	"	"	"	"	"	"	"	$\bar{A} 0 \text{ to } \bar{F} 1$	"	"
		245					"	"	2.7V	"	"	"	"	"	"	"	$\bar{A} 0 \text{ to } \bar{F} 2$	"	"
		246	OUT				2.7V	"	"	2.7V	"	"	"	"	"	"	$\bar{A} 0 \text{ to } \bar{F} 3$	"	"
t_{PHL10}		247	OUT				2.7V	"	"	"	"	"	"	"	"	"	$\bar{A} 2 \text{ to } \bar{F} 3$	"	"
		248					0.0V	"	"	0.0V	"	"	"	"	"	"	$\bar{A} 1 \text{ to } \bar{F} 2$	"	"
		249	OUT				"	"	0.0V	"	"	"	"	"	"	"	$\bar{A} 1 \text{ to } \bar{F} 3$	"	"
		250	OUT				"	2.7V	"	"	0.0V	"	"	"	"	"	$\bar{B} 0 \text{ to } \bar{F} 3$	4.0	"
		251					"	0.0V	"	"	2.7V	"	"	"	"	"	$\bar{A} 0 \text{ to } \bar{F} 1$	"	"
		252					"	"	2.7V	"	"	"	"	"	"	"	$\bar{A} 0 \text{ to } \bar{F} 2$	"	"
		253	OUT				2.7V	"	"	2.7V	"	"	"	"	"	"	$\bar{A} 0 \text{ to } \bar{F} 3$	"	"
		254	OUT				2.7V	"	"	"	"	"	"	"	"	"	$\bar{A} 2 \text{ to } \bar{F} 3$	"	"
		255					0.0V	"	"	0.0V	"	"	"	"	"	"	$\bar{A} 1 \text{ to } \bar{F} 2$	"	"
		256	OUT				"	"	0.0V	"	"	"	"	"	"	"	$\bar{A} 1 \text{ to } \bar{F} 3$	"	"

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type 01 - Continued.
Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3 1/ Test no.	1	2	3	4	5	6	7	8	9	10	11	12	Measured terminal	Limits	Unit
9	t_{PHL11}	3003	257	2.7 V	IN	0.0 V	2.7 V	0.0 V	GND	2.5	10.0	ns						
Tc = 25°C	Fig. 4	258	0.0 V	0.0 V	"	"	"	"	"	"	"	"	"	"	$\bar{A}0$ to \bar{G}	2.5	10.0	"
		259	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}1$ to \bar{G}	"	"	"
		260	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}2$ to \bar{G}	"	"	"
		261	IN	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}3$ to \bar{G}	"	"	"
		262	0.0 V	0.0 V	"	"	"	"	"	"	"	"	"	"	$\bar{B}0$ to \bar{G}	"	"	"
		263	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}1$ to \bar{G}	"	"	"
		264	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}2$ to \bar{G}	"	"	"
		265	2.7 V	IN	"	"	"	"	"	"	"	"	"	"	$\bar{B}3$ to \bar{G}	"	"	"
		266	0.0 V	0.0 V	"	"	"	"	"	"	"	"	"	"	$\bar{A}0$ to \bar{G}	3.0	9.0	"
		267	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}1$ to \bar{G}	"	"	"
		268	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}2$ to \bar{G}	"	"	"
		269	IN	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}3$ to \bar{G}	"	"	"
		270	0.0 V	0.0 V	"	"	"	"	"	"	"	"	"	"	$\bar{B}0$ to \bar{G}	"	"	"
		271	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}1$ to \bar{G}	"	"	"
		272	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}2$ to \bar{G}	"	"	"
		273	2.7 V	IN	"	"	"	"	"	"	"	"	"	"	$\bar{B}3$ to \bar{G}	"	"	"
		274	0.0 V	0.0 V	"	"	"	"	"	"	"	"	"	"	$\bar{A}0$ to $Cn+4$	5.0	13.0	"
		275	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}1$ to $Cn+4$	"	"	"
		276	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}2$ to $Cn+4$	"	"	"
		277	IN	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}3$ to $Cn+4$	"	"	"
		278	0.0 V	0.0 V	"	"	"	"	"	"	"	"	"	"	$\bar{B}0$ to $Cn+4$	"	"	"
		279	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}1$ to $Cn+4$	"	"	"
		280	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}2$ to $Cn+4$	"	"	"
		281	2.7 V	IN	"	"	"	"	"	"	"	"	"	"	$\bar{B}3$ to $Cn+4$	"	"	"
		282	0.0 V	0.0 V	"	"	"	"	"	"	"	"	"	"	$\bar{A}1$ to $Cn+4$	"	"	"
		283	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}2$ to $Cn+4$	"	"	"
		284	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}3$ to $Cn+4$	"	"	"
		285	IN	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}0$ to $Cn+4$	"	"	"
		286	0.0 V	0.0 V	"	"	"	"	"	"	"	"	"	"	$\bar{B}1$ to $Cn+4$	"	"	"
		287	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}2$ to $Cn+4$	"	"	"
		288	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}3$ to $Cn+4$	"	"	"

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type 01 - Continued.
Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3 1/	13	14	15	16	17	18	19	20	21	23	24	25	26	27	28	Measured terminal	Limits	Unit
		Test no.		A = B	\bar{P}	Cn+4	\bar{G}	\bar{A} 3	\bar{B} 2	\bar{A} 2	\bar{B} 1	\bar{A} 1	V_{CC}					Min	Max		
Tc = 25°C	t_{PLH11}	3003	257			OUT	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	5.0 V					2.5	10.0	ns	
		"	258				"	"	"	0.0 V	0.0 V	0.0 V	IN	"				"	"	"	
		"	259				"	"	"	2.7 V	IN	0.0 V	0.0 V	"				"	"	"	
		"	260				"	2.7 V	IN	0.0 V	0.0 V	"	"	"				"	"	"	
		"	261				"	0.0 V	0.0 V	"	"	"	"	"				"	"	"	
		"	262				"	"	"	"	"	"	"	"				"	"	"	
		"	263				"	"	"	IN	"	"	"	"				"	"	"	
		"	264				"	IN	"	0.0 V	"	"	"	"				"	"	"	
		"	265				"	0.0 V	"	"	"	"	"	"				"	"	"	
		"	266				"	"	"	2.7 V	IN	0.0 V	0.0 V	"				"	"	"	
	t_{PLH12}	"	267				"	"	"	2.7 V	IN	0.0 V	0.0 V	"				"	"	"	
		"	268				"	2.7 V	IN	0.0 V	0.0 V	"	"	"				"	"	"	
		"	269				"	0.0 V	"	"	"	"	"	"				"	"	"	
		"	270				"	"	"	"	IN	"	"	"				"	"	"	
		"	271				"	"	IN	"	0.0 V	"	"	"				"	"	"	
		"	272				"	IN	"	0.0 V	"	"	"	"				"	"	"	
		"	273				"	OUT	0.0 V	"	"	"	"	"				"	"	"	
		"	274				"	"	"	"	2.7 V	IN	0.0 V	0.0 V	"			"	"	"	
		"	275				"	"	2.7 V	IN	0.0 V	0.0 V	"	"				"	"	"	
		"	276				"	2.7 V	IN	0.0 V	0.0 V	"	"	"				"	"	"	
	t_{PLH12}	"	277				"	0.0 V	0.0 V	"	"	"	"	"				"	"	"	
		"	278				"	"	"	IN	"	"	"	"				"	"	"	
		"	279				"	IN	"	0.0 V	"	"	"	"				"	"	"	
		"	280				"	IN	"	0.0 V	"	"	"	"				"	"	"	
		"	281				"	0.0 V	"	"	"	"	"	"				"	"	"	
		"	282				"	"	"	"	2.7 V	IN	"	"				"	"	"	
		"	283				"	"	2.7 V	IN	0.0 V	0.0 V	"	"				"	"	"	
		"	284				"	2.7 V	IN	0.0 V	0.0 V	"	"	"				"	"	"	
	t_{PLH12}	"	285				"	0.0 V	0.0 V	"	"	"	"	"				"	"	"	
		"	286				"	"	"	IN	"	"	"	"				"	"	"	
		"	287				"	IN	"	0.0 V	"	0.0 V	"	"				"	"	"	
		"	288				"	IN	"	0.0 V	"	0.0 V	"	"				"	"	"	

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type Q1 - Continued.

		Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).																		
Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3 1/ Test no.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Measured terminal	Limits	Unit
Tc = 25°C	t _{PHL13}	Fig. 4	289	0.0 V	IN	S3	S2	S1	S0	Cn	M	̄F 0	̄F 1	̄F 2	GND	̄A 0 to ̄P	2.5	9.5	ns	
			290	"	0.0 V	"	"	"	"	0.0 V	0.0 V	"	"	"	"	̄A 1 to ̄P	"	"	"	
			291	"	"	"	"	"	"	"	"	"	"	"	"	̄A 2 to ̄P	"	"	"	
			292	"	"	"	"	"	"	"	"	"	"	"	"	̄A 3 to ̄P	"	"	"	
			293	IN	2.7 V	"	"	"	"	"	"	"	"	"	"	̄B 0 to ̄P	"	"	"	
			294	0.0 V	0.0 V	"	"	"	"	"	"	"	"	"	"	̄B 1 to ̄P	"	"	"	
			295	"	"	"	"	"	"	"	"	"	"	"	"	̄B 2 to ̄P	"	"	"	
			296	"	"	"	"	"	"	"	"	"	"	"	"	̄B 3 to ̄P	"	"	"	
			297	"	IN	"	"	"	"	"	"	"	"	"	"	̄A 0 to ̄P	"	8.0	"	
			298	"	0.0 V	"	"	"	"	"	"	"	"	"	"	̄A 1 to ̄P	"	"	"	
			299	"	"	"	"	"	"	"	"	"	"	"	"	̄A 2 to ̄P	"	"	"	
			300	"	"	"	"	"	"	"	"	"	"	"	"	̄A 3 to ̄P	"	"	"	
			301	IN	2.7 V	"	"	"	"	"	"	"	"	"	"	̄B 0 to ̄P	"	"	"	
			302	0.0 V	0.0 V	"	"	"	"	"	"	"	"	"	"	̄B 1 to ̄P	"	"	"	
			303	"	"	"	"	"	"	"	"	"	"	"	"	̄B 2 to ̄P	"	"	"	
			304	"	"	"	"	"	"	"	"	"	"	"	"	̄B 3 to ̄P	"	"	"	
Tc = 125°C	t _{PHL14}	Fig. 4	305	"	IN	"	"	"	"	"	"	"	"	"	"	̄A 0 to A=B	5.5	13.5	"	
			306	"	2.7 V	"	"	"	"	"	"	"	"	"	"	̄A 1 to A=B	"	"	"	
			307	"	"	"	"	"	"	"	"	"	"	"	"	̄A 2 to A=B	"	"	"	
			308	"	"	"	"	"	"	"	"	"	"	"	"	̄A 3 to A=B	"	"	"	
			309	IN	"	"	"	"	"	"	"	"	"	"	"	B 0 to A=B	"	"	"	
			310	0.0 V	"	"	"	"	"	"	"	"	"	"	"	B 1 to A=B	"	"	"	
			311	"	"	"	"	"	"	"	"	"	"	"	"	B 2 to A=B	"	"	"	
			312	"	"	"	"	"	"	"	"	"	"	"	"	B 3 to A=B	"	"	"	
			313	"	IN	"	"	"	"	"	"	"	"	"	"	̄A 1 to A=B	"	"	"	
			314	"	2.7 V	"	"	"	"	"	"	"	"	"	"	̄A 2 to A=B	"	"	"	
			315	"	"	"	"	"	"	"	"	"	"	"	"	̄A 3 to A=B	"	"	"	
			316	"	"	"	"	"	"	"	"	"	"	"	"	̄B 0 to A=B	"	"	"	
			317	IN	"	"	"	"	"	"	"	"	"	"	"	̄B 1 to A=B	"	"	"	
			318	0.0 V	"	"	"	"	"	"	"	"	"	"	"	̄B 2 to A=B	"	"	"	
			319	"	"	"	"	"	"	"	"	"	"	"	"	̄B 3 to A=B	"	"	"	
			320	"	"	"	"	"	"	"	"	"	"	"	"	̄B 1 to A=B	"	"	"	

10 Same tests and terminal conditions as for subgroup 9, except Tc = +125°C and use limits from table I.

11 Same tests and terminal conditions as for subgroup 9, except Tc = -55°C and use limits from table I.

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type Q1 - Continued.
Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases J, K, L Case 3_1	13	14	15	16	17	18	19	20	21	23	24	25	26	27	28	Measured terminal	Limits	Unit
9 $T_c = 25^\circ\text{C}$	t_{PHI3} Fig. 4	289	A = B OUT	\bar{P}	\bar{G}	\bar{C}_{n4}	\bar{B}_3	\bar{A}_3	\bar{B}_2	\bar{A}_2	\bar{B}_1	\bar{A}_1	V_{cc}	0.0 V	0.0 V	5.0 V	$\bar{A}\ 0\ to\ \bar{P}$	2.5	9.5	ns	
		290	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 1\ to\ \bar{P}$	"	"	
		291	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 2\ to\ \bar{P}$	"	"	
		292	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 3\ to\ \bar{P}$	"	"	
		293	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 0\ to\ \bar{P}$	"	"	
		294	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 1\ to\ \bar{P}$	"	"	
		295	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 2\ to\ \bar{P}$	"	"	
		296	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 3\ to\ \bar{P}$	"	"	
		297	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 0\ to\ \bar{P}$	8.0	"	
		298	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 1\ to\ \bar{P}$	"	"	
10 t_{PHI4}	t_{PHI4}	299	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 2\ to\ \bar{P}$	"	"	
		300	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 3\ to\ \bar{P}$	"	"	
		301	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 0\ to\ \bar{P}$	"	"	
		302	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 1\ to\ \bar{P}$	"	"	
		303	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 2\ to\ \bar{P}$	"	"	
		304	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 3\ to\ \bar{P}$	"	"	
		305	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 0\ to\ A = B$	5.5	13.5	
		306	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 1\ to\ A = B$	"	"	
		307	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 2\ to\ A = B$	"	"	
		308	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 3\ to\ A = B$	"	"	
11 t_{PHI4}	t_{PHI4}	309	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 0\ to\ A = B$	"	"	
		310	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 1\ to\ A = B$	"	"	
		311	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 2\ to\ A = B$	"	"	
		312	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 3\ to\ A = B$	"	"	
		313	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 0\ to\ A = B$	11.0	27.0	
		314	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 1\ to\ A = B$	"	"	
		315	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 2\ to\ A = B$	"	"	
		316	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{A}\ 3\ to\ A = B$	"	"	
10 t_{PHI4}	t_{PHI4}	317	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 0\ to\ A = B$	"	"	
		318	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 1\ to\ A = B$	"	"	
		319	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 2\ to\ A = B$	"	"	
11 t_{PHI4}	t_{PHI4}	320	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	$\bar{B}\ 3\ to\ A = B$	"	"	

10 Same tests and terminal conditions as for subgroup 9, except $T_c = +125^\circ\text{C}$ and use limits from table I.

11 Same tests and terminal conditions as for subgroup 9, except $T_c = -55^\circ\text{C}$ and use limits from table I.

See footnotes at end of device type 01.

TABLE III. Group A inspection for device type 01 - Continued.
 Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).

1/ For cases 3 pins not referenced are NC.
2/ I_{L1} limits (mA) min/max values for circuit shown:

Parameter	Test no.	A	B	C
I_{L1}	58	.25/-60	-.03/-60	-.25/.60
I_{L2}	59-66	-.75/-1.8	-.09/-1.8	-.75/-1.8
I_{L3}	67-70	-1.0/-2.4	-.12/-2.4	-1.0/-2.4
I_{L4}	71	-1.25/-3.0	-.15/-3.0	-1.25/-3.0

3/ $H \geq 1.5\text{ V}$, $L \leq 1.5\text{ V}$; $A = 2.5\text{ V}$, $B = 0.5\text{ V}$.

4/ Perform function sequence at $V_{CC} = 4.5\text{ V}$ and repeat at $V_{CC} = 5.5\text{ V}$.

TABLE III. Group A inspection for device type 02.
Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases E, F Case 2_M	Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).												Measured terminal Min	Measured terminal Max	Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14		
$T_c = 25^\circ\text{C}$	V_{OH}	3006	1	- \bar{G}	- \bar{P}	- \bar{G}	- \bar{P}	- \bar{G}	- \bar{P}	- \bar{G}	- \bar{P}	- \bar{G}	- \bar{P}	- \bar{G}	- \bar{P}	- \bar{G}	- \bar{P}	2.5	
			2	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	V
			3	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	"
			4	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	"
			5	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	"
			6	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	"
			7	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	"
			8	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	"
			9	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			10	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
V_{OL}	V_{IC}	3007	11	-18mA															0.5
			12	-18mA															"
			13	-18mA															"
			14	-18mA															"
			15																"
			16																"
			17																"
			18																"
I_{H11}	I_{H12}	3010	19																"
			20	2.7V	0.0V	0.0V	0.0V	"											
			21	0.0V	2.7V	0.0V	"	"	"	"	"	"	"	"	"	"	"	"	μA
			22	0.0V	0.0V	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"
			23	"	"	0.0V	2.7V	"	"	"	"	"	"	"	"	"	"	"	"
			24	"	"	0.0V	0.0V	2.7V	"	"	"	"	"	"	"	"	"	"	"
			25	"	"	"	"	0.0V	2.7V	"	"	"	"	"	"	"	"	"	"
			26	"	"	"	"	"	0.0V	"	"	"	"	"	"	"	"	"	"
			27	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			28	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
I_{H11}	I_{H12}	3009	29	7.0V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	100
			30	0.0V	7.0V	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			31	"	0.0V	7.0V	"	"	"	"	"	"	"	"	"	"	"	"	"
			32	"	"	0.0V	7.0V	"	"	"	"	"	"	"	"	"	"	"	"
			33	"	"	"	0.0V	7.0V	"	"	"	"	"	"	"	"	"	"	"
			34	"	"	"	"	0.0V	7.0V	"	"	"	"	"	"	"	"	"	"
			35	"	"	"	"	"	0.0V	"	"	"	"	"	"	"	"	"	"
			36	"	"	"	"	"	"	0.0V	"	"	"	"	"	"	"	"	"
			37	"	"	"	"	"	"	"	0.0V	"	"	"	"	"	"	"	"
			38	5.5V	5.5V	5.5V	5.5V	5.5V	5.5V	5.5V	5.5V	5.5V	5.5V	5.5V	5.5V	5.5V	5.5V	5.5V	mA

See footnotes at end of device type 02.

TABLE III. Group A inspection for device type 02.

Subgroup	Symbol	MIL-STD-883 method	Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).												Measured terminal	Limits	Unit				
			Cases E, F Case 2/ \underline{I}_f	1	2	3	4	5	6	7	8	9	10	12	13	14	15	16			
$T_C = 25^\circ\text{C}$	I_{L2}	Test no. 3009	$\bar{G} 1$	$\bar{P} 1$	$\bar{G} 0$	$\bar{P} 0$	$\bar{G} 3$	$\bar{P} 3$	GND	$Cn + z$	\bar{G}	$Cn + x$	Cn	$\bar{G} 2$	$\bar{P} 2$	V_{CC}	$\bar{P} 3$	$\bar{P} 2$	mA		
	I_{L3}	"	40	"	"	"	"	5.5 V	5.5 V	0.5 V	"	"	"	"	0.5 V	5.5 V	5.5 V	$\bar{P} 2$	"	"	
	I_{L4}	"	41	"	0.5 V	"	"	"	"	"	"	"	"	"	5.5 V	"	"	$\bar{P} 1$	"	"	
	I_{L5}	"	42	"	5.5 V	"	0.5 V	"	"	"	"	"	"	"	"	0.5 V	"	$\bar{P} 0$	"	"	
	I_{L6}	"	43	"	"	5.5 V	0.5 V	"	"	"	"	"	"	"	0.0 V	"	"	$\bar{G} 3$	"	"	
	I_{OS}	3011	47	5.5 V	"	"	"	"	0.0 V	"	"	"	"	"	"	0.5 V	"	$\bar{G} 1$	"	"	
I_{OD}	"	48	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	\bar{P}	-60	-150
	"	49	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	\bar{G}	"	"	
	"	50	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	$Cn + y$	"	"
	"	51	0.0 V	"	0.0 V	0.0 V	0.0 V	0.0 V	$Cn + x$	"	"										
	"	52	4.5 V	"	4.5 V	"	4.5 V	"	4.5 V	"	2.5 V	"	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	\bar{P}	60	"
	"	53	0.0 V	"	0.0 V	0.0 V	0.0 V	0.0 V	$Cn + z$	"	"										
I_{OC}	"	54	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	4.5 V	\bar{G}	"	"	
	"	55	"	"	0.0 V	0.0 V	0.0 V	0.0 V	$Cn + y$	"	"										
	"	56	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	$Cn + x$	"	"
	"	57	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	5.5 V	V_{CC}	28	"	
	"	58	"	"	0.0 V	0.0 V	0.0 V	0.0 V	V_{CC}	36	"										
	"	59	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	All outputs	"	"	
$T_C = 25^\circ\text{C}$	Functional test	3014	\underline{I}_f	60	A	B	B	B	B	B	H	H	H	H	H	H	H	H	All	"	"
			"	61	B	A	A	A	A	A	H	H	H	H	H	H	H	H	A	A	A
			"	62	B	B	B	B	B	B	H	H	H	H	H	H	H	H	B	B	B
			"	63	B	B	B	B	B	B	H	H	H	H	H	H	H	H	A	A	A
			"	64	B	B	B	B	B	B	H	H	H	H	H	H	H	H	B	B	B
			"	65	B	B	B	B	B	B	H	H	H	H	H	H	H	H	B	B	B
			"	66	A	A	A	A	A	A	L	L	L	L	L	L	L	L	A	A	A
			"	67	B	B	B	B	B	B	H	H	H	H	H	H	H	H	B	B	B
			"	68	B	A	A	A	A	A	H	H	H	H	H	H	H	H	A	A	A
			"	69	B	A	B	A	B	A	H	H	H	H	H	H	H	H	B	B	B
			"	70	A	B	B	A	B	A	H	H	H	H	H	H	H	H	A	A	A
			"	71	A	B	B	A	B	A	H	H	H	H	H	H	H	H	B	B	B
			"	72	B	A	A	A	A	A	H	H	H	H	H	H	H	H	L	L	L
			"	73	A	A	A	A	A	A	H	H	H	H	H	H	H	H	B	A	A
			"	74	2.7 V	0.0 V	"	"	"	"	"	"	"	"	$Cn \text{ to } Cn + x$	3.0	9.0				
			"	75	0.0 V	2.7 V	0.0 V	0.0 V	0.0 V	0.0 V	"	"	"	"	"	"	"	"	$Cn \text{ to } Cn + y$	"	"
			"	76	0.0 V	0.0 V	2.7 V	0.0 V	0.0 V	0.0 V	"	"	"	"	"	"	"	"	$Cn \text{ to } Cn + z$	"	"
			"	77	0.0 V	0.0 V	0.0 V	2.7 V	0.0 V	0.0 V	"	"	"	"	"	"	"	"	$Cn \text{ to } Cn + x$	"	"
			"	78	0.0 V	0.0 V	0.0 V	0.0 V	2.7 V	0.0 V	"	"	"	"	"	"	"	"	$Cn \text{ to } Cn + y$	"	"
			"	79	0.0 V	2.7 V	"	"	"	"	"	"	"	"	$Cn \text{ to } Cn + z$	"	"				
8 Same tests, terminal conditions, and limits as for subgroup 7, except $T_C = +125^\circ\text{C}$ and $T_C = -55^\circ\text{C}$.																					
$T_C = 25^\circ\text{C}$	t_{PHL1}	Fig. 4	3004	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	2.7 V	0.0 V	5.0 V
			"	76	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V	0.0 V										
See footnotes at end of device type 02.																					

TABLE III. Group A inspection for device type 02.
Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883 method	Cases E, F Case 2/J	Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).																Measured terminal	Limits	Unit	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
$T_c = 25^\circ C$	t_{PH2}	Fig. 4	80	2.7 V	0.0 V	2.7 V	IN	0.0 V	0.0 V	\bar{G} 3	\bar{P} 0	GND	Cn + z	\bar{G}	Cn + x	Cn	\bar{G} 2	\bar{P} 2	V_{cc}	\bar{P} 0 to Cn + x	1.0	5.0	ns
			81	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"		"	"	"
			82	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"		"	"	"
			83	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"		"	"	"
			84	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"		"	"	"
			85	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"		"	"	"
			86	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"		"	"	"
			87	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"		"	"	"
			88	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"		"	"	"
			89	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"		"	"	"
t_{PH3}			90	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	\bar{P} 1 to Cn + z	"	"	"
			91	"	0.0 V	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"		"	"	"
			92	2.7 V	0.0 V	IN	0.0 V	0.0 V	0.0 V	"	"	"	OUT	0.0 V	2.7 V	0.0 V	"	"	\bar{P} 0 to Cn + z	1.0	5.2	"	
			93	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	\bar{P} 1 to Cn + y	"	"	"	
			94	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	\bar{P} 1 to Cn + z	"	"	"	
			95	"	"	"	"	"	"	"	"	"	OUT	0.0 V	2.7 V	0.0 V	"	"	\bar{P} 2 to Cn + z	"	"	"	
			96	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	\bar{G} 0 to Cn + x	1.0	5.2	"	
			97	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	\bar{G} 0 to Cn + y	"	"	"	
			98	IN	"	2.7 V	0.0 V	"	"	"	"	"	OUT	0.0 V	"	"	"	"	\bar{G} 0 to Cn + z	"	"	"	
			99	"	2.7 V	"	"	"	"	"	"	"	OUT	"	2.7 V	"	"	"	\bar{G} 1 to Cn + y	"	"	"	
			100	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	\bar{G} 1 to Cn + z	"	"	"	
			101	"	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"		\bar{G} 1 to Cn + y	"	"	"
			102	"	0.0 V	"	2.7 V	"	"	"	"	"	OUT	"	"	"	"	"		\bar{G} 1 to Cn + z	"	"	"
			103	"	"	2.7 V	"	"	"	"	"	"	OUT	"	"	"	"	"		\bar{G} 1 to Cn + y	"	"	"
			104	2.7 V	"	0.0 V	"	"	"	"	"	"	OUT	0.0 V	IN	"	"	"		\bar{G} 1 to Cn + z	"	"	"
			105	"	"	2.7 V	"	2.7 V	"	"	"	"	OUT	"	2.7 V	"	"	"		\bar{G} 2 to Cn + z	"	"	"
			106	"	2.7 V	0.0 V	"	"	"	"	"	"	OUT	"	"	"	"	"		\bar{G} 2 to Cn + z	"	"	"
			107	"	0.0 V	"	"	"	"	"	"	"	OUT	"	2.7 V	"	"	"		\bar{G} 2 to Cn + z	"	"	"

See footnotes at end of device type 02.

TABLE III. Group A inspection for device type 02.
Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).

Subgroup	Symbol	MIL-STD-883 method	Measured terminal																Unit
			Cases E, F	Cases 2, 1/ _l	1	2	3	4	5	6	7	8	9	10	12	13	14	15	
$T_c = 25^\circ\text{C}$	t_{PH3} Fig. 4	3004	108	2.7V	0.0V	IN	0.0V	ns											
			109	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			110	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			111	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			112	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			113	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			114	IN	"	2.7V	0.0V	"	"	"	"	"	"	"	"	"	"	"	"
			115	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			116	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			117	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			118	0.0V	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"
			119	"	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"
			120	2.7V	"	0.0V	"	"	"	"	"	"	"	"	"	"	"	"	"
			121	"	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"
			122	"	2.7V	"	0.0V	"	"	"	"	"	"	"	"	"	"	"	"
			123	0.0V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
t_{PH4}		124	"	IN	0.0V	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	8.0
			125	"	0.0V	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"
			126	0.0V	0.0V	"	0.0V	"	IN	"	"	"	"	"	"	"	"	"	"
			127	2.7V	IN	"	0.0V	"	0.0V	"	"	"	"	"	"	"	"	"	10.0
			128	2.7V	0.0V	"	2.7V	"	0.0V	"	"	"	"	"	"	"	"	"	"
			129	0.0V	"	0.0V	"	0.0V	"	IN	"	"	"	"	"	"	"	"	"
t_{PH5}		130	2.7V	"	IN	"	0.0V	"	0.0V	"	"	"	"	"	"	"	"	"	7.5
			131	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"
			132	IN	2.7V	0.0V	"	"	"	"	"	"	"	"	"	"	"	"	"
			133	2.7V	0.0V	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"
			134	"	2.7V	0.0V	"	"	"	"	"	"	"	"	"	"	"	"	"
			135	"	0.0V	0.0V	"	"	"	"	"	"	"	"	"	"	"	"	"
			136	"	0.0V	2.7V	"	IN	"	"	"	"	"	"	"	"	"	"	"
t_{PH6}		137	"	2.7V	0.0V	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			138	"	0.0V	"	"	"	"	"	"	"	"	"	"	"	"	"	"
			139	"	0.0V	"	"	"	2.7V	"	"	"	"	"	"	"	"	"	"

See footnotes at end of device type 02.

TABLE III. Group A inspection for device type 02.

		Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open)																				
Subgroup	Symbol	MIL-STD-883 method	Cases E, F		1	2	3	4	5	6	7	8	9	10	12	13	14	15	Measured terminal	Limits	Unit	
			Case 1	Case 2	Test no.	\bar{G} 1	\bar{P} 1	\bar{G} 0	\bar{P} 0	\bar{G} 3	\bar{P} 3	GND	Cn + z	\bar{G}	Cn + y	Cn + x	Cn	\bar{G} 2	\bar{P} 2	V_{CC}	Min	Max
$T_c = 25^\circ C$	t_{PLH6}	Fig. 4	3004	"	140	2.7 V	0.0 V	IN	0.0 V	2.7 V	0.0 V	GND	OUT			2.7 V	2.7 V	0.0 V	\bar{G} 0 to \bar{G}	3.0	10.5	ns
			"	"	141	IN	0.0 V	2.7 V	"	"	"				"	"	"	"	\bar{G} 1 to \bar{G}	"	"	"
			"	"	142	IN	2.7 V	0.0 V	"	"	"				"	"	"	"	\bar{G} 1 to \bar{G}	"	"	"
			"	"	143	2.7 V	0.0 V	2.7 V	"	"	"				"	"	"	"	\bar{G} 2 to \bar{G}	"	"	"
			"	"	144	"	2.7 V	0.0 V	"	"	"				"	"	"	"	\bar{G} 2 to \bar{G}	"	"	"
			"	"	145	"	0.0 V	0.0 V	"	"	"				"	"	"	"	\bar{G} 2 to \bar{G}	"	"	"
			"	"	146	"	0.0 V	2.7 V	"	IN	"				"	"	"	"	\bar{G} 2 to \bar{G}	"	"	"
			"	"	147	"	2.7 V	0.0 V	"	"	"				"	"	"	"	\bar{G} 3 to \bar{G}	"	"	"
			"	"	148	"	0.0 V	"	"	"	"				"	"	"	"	\bar{G} 3 to \bar{G}	"	"	"
			"	"	149	"	"	"	"	"	2.7 V				"	"	"	"	\bar{G} 3 to \bar{G}	"	"	"
			"	"	150	0.0 V	"	IN	0.0 V	0.0 V	OUT				0.0 V	0.0 V	"	"	\bar{P} 0 to \bar{P}	1.5	5.5	"
			"	"	151	"	IN	"	0.0 V	"	"				"	"	"	"	\bar{P} 1 to \bar{P}	"	"	"
			"	"	152	"	0.0 V	"	"	"	"				"	"	"	"	\bar{P} 2 to \bar{P}	"	"	"
			"	"	153	"	"	"	"	IN	"				"	"	"	"	\bar{P} 3 to \bar{P}	"	"	"
			"	"	154	"	"	IN	"	0.0 V	"				"	"	"	"	\bar{P} 0 to \bar{P}	2.5	7.5	"
			"	"	155	"	IN	"	0.0 V	"	"				"	"	"	"	\bar{P} 1 to \bar{P}	"	"	"
			"	"	156	"	0.0 V	"	"	"	"				"	"	"	"	\bar{P} 2 to \bar{P}	"	"	"
			"	"	157	"	"	"	"	"	IN	"			"	"	"	"	\bar{P} 3 to \bar{P}	"	"	"

10 Same tests, terminal conditions, and limits as for subgroup 9, except $T_c = +125^\circ C$ and use limits from table I.11 Same tests, terminal conditions and limits as for subgroup 9, except $T_c = -55^\circ C$ and use limits from table I.

1/ For case 2 pins not referenced are NC.
 2/ I_L limits (mA) min/max values for circuit shown:

Parameter	Test no.	A	B
I_{L1}	38	-0.5/-1.2	-0.5/-1.2
I_{L2}	39	-1.0/-2.4	-0.1/-2.4
I_{L3}	40	-1.5/-3.6	-1.5/-3.6
I_{L4}	41 - 43	-2.0/-4.8	-1.5/-3.6
I_{L5}	44 - 45	-3.5/-8.4	-3.5/-8.4
I_{L6}	46	-4.0/-9.6	-4.0/-9.6

3/ $H \geq 1.5 V$, $L \leq 1.5 V$; $A = 2.5 V$, $B = 0.5 V$.4/ Perform function sequence at $V_{CC} = 4.5 V$ and repeat at $V_{CC} = 5.5 V$.

TABLE III. Group A inspection for device type 03.

Subgroup	Symbol	MIL-STD-883 method	Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).																Measured terminal	Test limits	Unit		
			Cases R, S2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
$T_C = 25^\circ\text{C}$	V_{OH}	3006	1	0.8V	-1 mA	GND	F2	F3	\bar{G}	\bar{P}	Cn	A3	B2	A2	V_{CC}								
		2	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F0	2.5
		3	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F1	"
		4	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F2	"
		5	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F3	"
		6	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	\bar{G}	"
		7	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	\bar{P}	"
		8	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F0	"
		9	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F1	"
		10	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F2	"
		11	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F3	"
		12	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	\bar{G}	"
		13	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	\bar{P}	"
		14	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F0	"
		15	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F1	"
		16	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F2	"
		17	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F3	"
V_{OL}		3007	18	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.5											
		19	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F0	"
		20	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F1	"
		21	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F2	"
		22	"	"	"	"	"	"	"	"	-1 mA	"	"	"	"	"	"	"	"	"	"	F3	"
		23	"	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	"											
		24	"	2.0V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	0.8V	2.0V	"									
		25	"	"	"	"	"	"	"	"	-20 mA	"	"	"	"	"	"	"	"	"	"	F0	"
		26	"	"	"	"	"	"	"	"	-20 mA	"	"	"	"	"	"	"	"	"	"	F1	"
		27	"	"	"	"	"	"	"	"	-20 mA	"	"	"	"	"	"	"	"	"	"	F2	"
		28	"	"	"	"	"	"	"	"	-20 mA	"	"	"	"	"	"	"	"	"	"	F3	"
		29	"	"	"	"	"	"	"	"	-20 mA	"	"	"	"	"	"	"	"	"	"	\bar{G}	"
		30	"	0.8V	0.8V	0.8V	0.8V	0.8V	0.8V	0.8V	0.5												
		31	"	"	"	"	"	"	"	"	-20 mA	"	"	"	"	"	"	"	"	"	"	F0	"
		32	"	"	"	"	"	"	"	"	-20 mA	"	"	"	"	"	"	"	"	"	"	F1	"
		33	"	"	"	"	"	"	"	"	-20 mA	"	"	"	"	"	"	"	"	"	"	F2	"
		34	"	"	"	"	"	"	"	"	-20 mA	"	"	"	"	"	"	"	"	"	"	F3	"
		35	"	"	"	"	"	"	"	"	-20 mA	"	"	"	"	"	"	"	"	"	"	\bar{G}	"
		36	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	\bar{P}	"											
V_{IC}		37	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	A1	-1.2											
		38	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	B1	"											
		39	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	Cn	"											
		40	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	B3	"											
		41	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	B4	"											
		42	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	S0	"											
		43	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	S1	"											
		44	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	S2	"											
		45	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	\bar{P}	"											
		46	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	\bar{G}	"											
		47	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	\bar{P}	"											
		48	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	\bar{G}	"											
		49	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	\bar{P}	"											
		50	"	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	-18 mA	\bar{G}	"											

See footnotes at end of device type 03.

TABLE III. Group A inspection for device type 03.

Subgroup	Symbol	MIL-STD-883 method	Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).																			Measured terminal	Test limits	Unit					
			Cases R, S, 2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19							
$T_C = 25^\circ C$	I_{H2}	3009	51	0.5 V	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	\bar{G}	P	Cn	A3	E2	A2	V _{CC}	5.5 V	A1	I_f	mA		
		"	52	0.5 V																					B1	"	"	"	
		"	53	0.5 V																					A0	"	"	"	
		"	54	0.5 V																					B0	"	"	"	
		"	55	"																						Cn	"	"	"
		"	56	"																						B3	"	"	"
		"	57	"																						A3	"	"	"
		"	58	"																						B2	"	"	"
		"	59	"																						A2	"	"	"
		3010	60	2.7 V																						A1	"	20	µA
I_{H1}		"	61	2.7 V																						B1	"	"	"
		"	62	2.7 V																						A0	"	"	"
		"	63	2.7 V																						B0	"	"	"
		"	64	2.7 V																						S0	"	"	"
		"	65	2.7 V																						S1	"	"	"
		"	66	"																						S2	"	"	"
		"	67	"																						Cn	"	"	"
		"	68	"																						B3	"	"	"
		"	69	"																						A3	"	"	"
		"	70	"																						B2	"	"	"
I_{H2}		"	71	"																						A2	"	"	"
		"	72	7.0 V																						A1	"	100	µA
		"	73	7.0 V																						B1	"	"	"
		"	74	7.0 V																						A0	"	"	"
		"	75	7.0 V																						B0	"	"	"
		"	76	"																						S0	"	"	"
		"	77	"																						S1	"	"	"
		"	78	"																						S2	"	"	"
		"	79	"																						Cn	"	"	"
		"	80	"																						B3	"	"	"
I_{O3}		"	81	"																						A3	"	"	"
		"	82	"																						B2	"	"	"
		"	83	"	GND	GND	GND	GND	4.5 V	GND	GND	0.0 V	"	"	"	"	"	"	"	"	"	"	"	"	A2	"	"	"	
		"	84	"	GND	GND	GND	GND	4.5 V	GND	GND	0.0 V	"	"	"	"	"	"	"	"	"	"	"	"	F0	-60	-150	mA	
		"	85	"	GND	GND	GND	GND	4.5 V	GND	GND	0.0 V	"	"	"	"	"	"	"	"	"	"	"	"	F1	"	"	"	
		"	86	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	F2	"	"	"	
		"	87	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	F3	"	"	"	
		"	88	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	G	"	"	"	
		"	89	"	4.5 V	"	4.5 V	GND	"	4.5 V	"	"	"	"	"	"	0.0 V	"	"	"	"	"	"	"	F0	-60	-150	mA	
		"	90	"	GND	GND	GND	GND	4.5 V	GND	GND	2.5 V	"	"	"	"	"	"	"	"	"	"	"	"	F1	"	"	"	
I_{O2}		"	91	"	"	"	"	"	"	"	"	"	"	"	"	"	"	2.5 V	"	"	"	"	"	"	F2	"	"	"	
		"	92	"	"	"	"	"	"	"	"	"	"	"	"	"	"	2.5 V	"	"	"	"	"	"	F3	"	"	"	
		"	93	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	G	"	"	"	
		"	94	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A	"	"	"	
		"	95	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B	"	"	"	
		"	96	"	4.5 V	4.5 V	4.5 V	GND	GND	GND	GND	"	"	"	"	"	"	"	4.5 V	4.5 V	4.5 V	4.5 V	5.5 V	V _{CC}	89	"	All		
		"	97	"	B	B	B	B	B	B	B	"	"	"	"	"	"	"	L	L	L	L	B	B	B	3/4 outputs			
		"	98	"	A	A	A	A	A	A	A	"	"	"	"	"	"	"	H	H	H	H	B	B	B	"			
		"	99	"	A	A	A	A	A	A	A	"	"	"	"	"	"	"	L	L	L	L	A	A	A	"			
		"	100	"	A	A	A	A	A	A	A	"	"	"	"	"	"	"	H	H	H	H	B	B	B	"			
$T_C = 25^\circ C$		"	101	"	B	B	B	B	B	B	B	"	"	"	"	"	"	"	L	L	L	L	A	A	A	"			
		"	102	"	B	B	B	B	B	B	B	"	"	"	"	"	"	"	H	H	H	H	B	B	B	"			
		"	103	"	B	B	B	B	B	B	B	"	"	"	"	"	"	"	L	L	L	L	A	A	A	"			
		"	104	"	A	A	A	A	A	A	A	"	"	"	"	"	"	"	H	H	H	H	B	B	B	"			

See footnotes at end of device type 03.

TABLE III. Group A inspection for device type 03.

Subgroup	Symbol	MIL-STD-883 Test no.	Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).												Measured terminal Min	Measured terminal Max	Unit						
			Cases R, S, 2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
7 $T_c = 25^\circ\text{C}$	Functional tests 2/	3014	105	A	A	A	B	B	B	B	F0	F1	GND	F2	F3	\bar{G}	Cn	B3	A3	E2	A2	V_{CC}	
		106	B	B	B	B	A	"	H	H	L	L	GND	L	L	H	L	A	A	A	A	3/ outputs	
		107	B	A	B	A	"	"	L	H	"	L	"	H	"	H	L	B	B	A	A	"	
		108	A	B	A	B	"	"	L	H	"	H	"	H	"	H	L	"	A	B	A	"	
		109	A	A	A	A	"	"	L	H	"	H	"	H	"	H	"	A	A	A	A	"	
		110	B	B	B	B	"	"	L	L	"	L	"	L	"	L	"	A	B	B	B	"	
		111	B	A	B	A	"	"	H	L	"	L	"	H	"	H	"	A	B	A	B	"	
		112	A	B	A	B	"	"	H	L	"	H	"	L	"	H	"	B	A	B	A	"	
		113	A	A	A	A	"	"	L	L	"	L	"	L	"	H	"	A	A	A	A	"	
		114	B	B	B	B	A	"	"	L	L	"	L	"	L	"	H	B	B	B	B	"	
		115	B	A	B	A	"	"	H	H	"	H	"	H	"	H	"	A	B	A	B	"	
		116	A	B	A	B	"	"	H	H	"	H	"	H	"	H	"	B	A	B	A	"	
		117	A	A	A	A	"	"	L	L	"	L	"	L	"	L	"	A	A	A	A	"	
		118	B	B	B	B	"	"	H	L	"	L	"	H	"	H	"	A	B	B	B	"	
		119	B	A	B	A	"	"	L	L	"	L	"	L	"	L	"	A	B	A	B	"	
		120	A	B	A	B	"	"	L	L	"	L	"	L	"	L	"	B	A	B	A	"	
		121	A	A	A	A	"	"	H	H	"	H	"	H	"	H	"	A	A	A	A	"	
8 $T_c = 25^\circ\text{C}$	t_{PLH} Fig. 4	122	B	B	B	B	B	"	A	L	L	"	L	"	L	"	H	B	B	B	B	"	
		123	B	A	B	A	"	"	H	H	"	H	"	H	"	H	"	A	B	A	B	"	
		124	A	B	A	B	"	"	H	H	"	H	"	H	"	H	"	L	A	A	B	A	"
		125	A	A	A	A	"	"	L	L	"	L	"	L	"	L	"	A	A	A	A	"	
		126	B	B	B	B	A	"	"	H	H	"	H	"	H	"	H	B	B	B	B	"	
		127	B	A	B	A	"	"	H	H	"	H	"	H	"	H	"	A	B	A	B	"	
		128	A	B	A	B	"	"	H	H	"	H	"	H	"	H	"	L	A	B	A	"	
		129	A	A	A	A	"	"	H	H	"	H	"	H	"	H	"	L	A	A	A	"	
		130	B	B	B	B	A	"	"	L	L	"	L	"	L	"	L	B	B	B	B	"	
		131	B	A	B	A	"	"	H	H	"	H	"	H	"	H	"	A	B	A	B	"	
		132	A	B	A	B	"	"	H	H	"	H	"	H	"	H	"	L	A	B	A	"	
		133	A	A	A	A	"	"	H	H	"	H	"	H	"	H	"	A	A	A	A	"	
		134	B	B	B	B	A	"	"	H	H	"	H	"	H	"	H	B	B	B	B	"	
		135	B	A	B	A	B	"	"	H	H	"	H	"	H	"	H	A	B	A	B	"	
		136	A	B	A	B	"	"	H	H	"	H	"	H	"	H	"	L	A	B	A	"	
		137	A	A	A	A	"	"	H	H	"	H	"	H	"	H	"	L	A	A	A	"	
9 t_{PLH} Fig. 4	t_{PLH} Fig. 4	138	GND	GND	GND	GND	2.7V	GND	OUT	GND	OUT	"	"	"	"	"	"	"	"	"	"	ns	
		139	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	
		140	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	
		141	"	"	"	"	"	"	GND	2.7V	"	OUT	"	OUT	"	"	"	"	"	"	"	"	
		142	"	"	"	"	"	"	H	H	"	H	"	H	"	H	"	"	"	"	"	"	
		143	"	"	"	"	"	"	H	H	"	H	"	H	"	H	"	"	"	"	"	"	
		144	"	"	"	"	"	"	H	H	"	H	"	H	"	H	"	"	"	"	"	"	
		145	"	"	"	"	"	"	H	H	"	H	"	H	"	H	"	"	"	"	"	"	
		146	"	2.7V	"	2.7V	"	OUT	"	"	OUT	"	"	"	"	"	"	2.7V	"	2.7V	"	"	
		147	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	
		148	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	
		149	"	"	GND	"	GND	"	OUT	"	OUT	"	"	"	"	"	"	GND	"	"	"	"	
		150	"	"	GND	"	GND	"	OUT	"	OUT	"	"	"	"	"	"	"	"	"	"	"	
		151	"	"	"	"	"	"	OUT	"	OUT	"	"	"	"	"	"	"	"	"	"	"	
		152	"	"	"	"	"	"	OUT	"	OUT	"	"	"	"	"	"	"	"	"	"	"	
		153	"	"	"	"	"	"	OUT	"	OUT	"	"	"	"	"	"	"	"	"	"	"	
10 $T_c = 25^\circ\text{C}$	See footnotes at end of device type 03.	154	"	"	"	"	GND	2.7V	OUT	"	OUT	"	"	"	"	"	"	Cn to F0	"	"	"	"	
		155	"	"	"	"	H	H	OUT	"	OUT	"	"	"	"	"	"	Cn to F1	"	"	"	"	
		156	"	"	"	"	H	H	OUT	"	OUT	"	"	"	"	"	"	Cn to F2	"	"	"	"	
		157	"	"	"	"	H	H	OUT	"	OUT	"	"	"	"	"	"	Cn to F3	"	"	"	"	
		158	"	2.7V	"	2.7V	"	OUT	"	OUT	"	"	"	"	"	"	"	Cn to F4	"	"	"	"	
		159	"	"	2.7V	"	2.7V	"	OUT	"	OUT	"	"	"	"	"	"	Cn to F5	"	"	"	"	
		160	"	"	"	"	H	H	OUT	"	OUT	"	"	"	"	"	"	Cn to F6	"	"	"	"	
		161	"	"	"	"	H	H	OUT	"	OUT	"	"	"	"	"	"	Cn to F7	"	"	"	"	

TABLE III. Group A inspection for device type 03.

Subgroup	Symbol	Mil-STD-883 method	Cases R, S, 2	Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open)												Measured terminal	Test limits	Unit					
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
$T_c = 25^\circ C$	t_{PH2}	3003	162	IN	2.7V	IN	2.7V	GND	GND	OUT	GND	F1	GND	F2	F3	\bar{G}	\bar{P}	Cn	B3	A3	E2	A2	V _{cc}
		163	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		164	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		165	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		166	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		167	IN	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		168	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		169	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		170	"	IN	"	2.7V	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		171	IN	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
t_{PH3}	t_{PH2}	172	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		173	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		174	GND	IN	GND	GND	GND	2.7V	OUT	"	"	"	"	"	"	"	GND	GND	GND	GND	GND	GND	GND
		175	IN	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		176	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		177	IN	2.7V	IN	2.7V	GND	GND	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"
		178	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		179	IN	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		180	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		181	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
t_{PH3}	t_{PH2}	182	"	IN	2.7V	IN	2.7V	GND	GND	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		183	IN	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		184	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		185	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		186	"	IN	"	2.7V	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		187	IN	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		188	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		189	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		190	GND	IN	GND	GND	2.7V	OUT	"	"	"	"	"	"	"	"	GND	GND	GND	GND	GND	GND	
		191	IN	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
$T_c = 25^\circ C$	t_{PH3}	192	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		193	"	2.7V	IN	2.7V	IN	2.7V	GND	GND	OUT	"	"	"	"	"	"	"	"	"	"	"	"
		194	"	195	IN	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		196	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		197	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		198	"	"	IN	GND	2.7V	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		199	"	IN	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		200	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		201	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		202	"	"	IN	"	2.7V	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
$T_c = 25^\circ C$	t_{PH3}	203	IN	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		204	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		205	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		206	"	"	IN	GND	2.7V	OUT	"	"	"	"	"	"	"	"	GND	GND	GND	GND	GND	GND	GND
		207	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		208	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		209	"	GND	IN	2.7V	"	"	"	OUT	"	"	"	"	"	"	"	GND	GND	GND	GND	GND	GND
		210	"	IN	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		211	"	IN	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		212	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
$T_c = 25^\circ C$	t_{PH3}	213	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		214	2.7V	IN	2.7V	GND	2.7V	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
		215	"	IN	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		216	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"
		217	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"

See footnotes at end of device type 03.

TABLE III. Group A inspection for device type 03.

Subgroup	Symbol	MIL-STD-883 R,S,2	Cases	Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).																Measured terminal	Test limits	Unit
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
t_{PHL3} $T_c = 25^\circ C$	3003	218	2.7V	IN	2.7V	GND	OUT	GND	F2	F3	\bar{G}	GND	2.7V	2.7V	5.0 V	B0 to F0	3.0	12.5	ns			
	219	"	IN	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	B1 to F1	"	"
	220	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B2 to F2	"	"
	221	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	B3 to F3	"	"
	222	"	"	"	"	"	"	GND	2.7V	OUT	"	"	2.7V	"	"	"	"	"	B0 to F0	"	"	
	223	"	IN	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	B1 to F1	"	"	
	224	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	B2 to F2	"	"	
	225	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	B3 to F3	"	"	
	226	"	IN	2.7V	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	B0 to F0	"	"	
	227	"	IN	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B1 to F1	"	"	
t_{PHL4}	228	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	B2 to F2	"	"	
	229	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	B3 to F3	"	"	
	230	"	"	IN	GND	GND	2.7V	OUT	"	"	"	GND	"	"	"	"	"	"	B0 to F0	"	"	
	231	"	IN	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B1 to F1	"	"	
	232	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B2 to F2	"	"	
	233	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B3 to F3	"	"	
	234	GND	IN	2.7V	"	"	OUT	"	"	"	"	GND	"	"	"	"	"	GND	"	B0 to F0	"	"
	235	"	IN	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B1 to F1	"	"	
	236	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B2 to F2	"	"	
	237	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B3 to F3	"	"	
t_{PHL4}	238	2.7V	IN	GND	2.7V	"	OUT	"	"	"	"	"	2.7V	"	"	"	"	"	S0 to F0	"	"	
	239	"	IN	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B1 to F1	"	"	
	240	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B2 to F2	"	"	
	241	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B3 to F3	"	"	
	242	GND	GND	GND	IN	"	GND	OUT	"	"	"	GND	GND	GND	GND	GND	GND	GND	S0 to F0	"	20.0	
	243	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S0 to F1	"	"	
	244	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S0 to F2	"	"	
	245	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S0 to F3	"	"	
	246	"	2.7V	"	2.7V	IN	"	OUT	"	"	"	"	2.7V	"	"	"	"	"	S1 to F0	"	"	
	247	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S1 to F1	"	"	
t_{PHL4}	248	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S1 to F2	"	"	
	249	"	"	GND	"	GND	IN	OUT	"	"	"	GND	GND	GND	GND	GND	GND	GND	S2 to F0	"	"	
	250	"	"	GND	"	GND	IN	OUT	"	"	"	"	"	"	"	"	"	"	S2 to F1	"	"	
	251	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S2 to F2	"	"	
	252	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S2 to F3	"	"	
	253	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S2 to F0	"	"	
	254	"	"	"	"	"	IN	2.7V	GND	OUT	"	"	"	"	"	"	"	"	S0 to F0	"	14.0	
	255	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S0 to F1	"	"	
	256	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S0 to F2	"	"	
	257	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S0 to F3	"	"	
t_{PHL5}	258	"	2.7V	"	2.7V	IN	"	OUT	"	"	"	2.7V	"	"	"	"	"	"	S1 to F0	"	"	
	259	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S1 to F1	"	"	
	260	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S1 to F2	"	"	
	261	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S1 to F3	"	"	
	262	"	GND	"	GND	IN	OUT	"	"	"	"	GND	GND	GND	GND	GND	GND	GND	S2 to F0	"	"	
	263	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S2 to F1	"	"	
t_{PHL5}	264	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S2 to F2	"	"	
	265	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	S2 to F3	"	"	
	266	2.7V	2.7V	IN	2.7V	"	GND	"	OUT	"	"	"	2.7V	"	"	"	"	A0 to G	"	11.5		
	267	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	A1 to \bar{G}	"	"		
	268	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to \bar{G}	"	"		
t_{PHL5}	269	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to \bar{G}	"	"		

See footnotes at end of device type 03.

TABLE III. Group A inspection for device type 03.

Subgroup	Symbol	Mil-STD-883 R, S, 2	Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).																		Test limits Unit		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
Tc = 25°C	Fig. 4	9	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	–GND	Cn	B3	A3	B2	A2	Vcc		
		3003	270	GND	GND	IN	GND	2.7 V	GND	GND	GND	GND	GND	GND	GND	GND	GND	5.0 V	A0 to –G	3.0	11.5	ns	
		tPLH5	"	271	IN	"	GND	"	"	"	"	"	"	"	"	"	"	GND	"	A1 to –G	"	"	
		"	272	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	A2 to –G	"	"	
		"	273	"	"	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	A3 to –G	"	"	
		"	274	"	2.7 V	IN	2.7 V	2.7 V	"	"	"	"	"	"	"	"	2.7 V	GND	2.7 V	"	IN	"	
		"	275	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	IN	"	A1 to –G	"	"	
		"	276	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	A2 to –G	"	"	
		"	277	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	A3 to –G	"	"	
		tPLH5	"	278	2.7 V	2.7 V	IN	"	GND	"	"	"	"	"	"	"	GND	"	2.7 V	"	2.7 V	"	
Tc = 100°C	Fig. 4	279	IN	"	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	2.7 V	"	2.7 V	"
		280	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	A1 to –G	"	"	
		281	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	A2 to –G	"	"	
		"	282	GND	GND	IN	GND	GND	2.7 V	"	"	"	"	"	"	"	GND	GND	GND	GND	"	A3 to –G	
		"	283	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	GND	"	A1 to –G	"	"	
		"	284	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	A2 to –G	"	"	
		"	285	"	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	A3 to –G	"	"		
		"	286	"	2.7 V	IN	2.7 V	2.7 V	"	"	"	"	"	"	"	"	2.7 V	GND	2.7 V	"	IN	"	
		"	287	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	IN	"	A1 to –G	"	"	
		"	288	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	A2 to –G	"	"	
Tc = 150°C	Fig. 4	289	"	"	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	A3 to –G	"	"		
		290	"	GND	GND	IN	"	GND	"	"	"	"	"	"	"	"	GND	GND	GND	GND	"		
		291	"	IN	"	GND	"	"	"	"	"	"	"	"	"	"	GND	"	B1 to –G	"	"		
		292	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	B2 to –G	"	"		
		293	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	B3 to –G	"	"		
		"	294	2.7 V	2.7 V	2.7 V	IN	GND	2.7 V	"	"	"	"	"	"	"	2.7 V	2.7 V	2.7 V	"	IN	"	
		"	295	"	IN	"	2.7 V	"	"	"	"	"	"	"	"	"	2.7 V	"	2.7 V	"	IN	"	
		"	296	"	2.7 V	"	"	"	"	"	"	"	"	"	"	"	IN	"	B2 to –G	"	"		
		"	297	"	2.7 V	"	"	"	"	"	"	"	"	"	"	"	IN	"	B3 to –G	"	"		
		"	298	"	GND	"	IN	"	2.7 V	"	"	"	"	"	"	"	GND	"	B0 to –G	"	"		
Tc = 200°C	Fig. 4	299	"	IN	"	GND	"	"	"	"	"	"	"	"	"	"	GND	"	B1 to –G	"	"		
		300	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	B2 to –G	"	"		
		301	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	B3 to –G	"	"		

See footnotes at end of device type 03.

TABLE III. Group A inspection for device type 03.

		Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).																								
Subgroup	Symbol	MIL-STD-883 R, S, 2	Cases	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Measured terminal	Test limits	Unit
9 $T_c = 25^\circ\text{C}$	t_{PHL6} Fig. 4	Test no.	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	\bar{G}	P	Cn	B3	A3	E2	A2	V _{CC}	5.0 V	B0 to \bar{G}	3.0	10.0 ns
		3003	GND	GND	IN	2.7 V	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	"	"	B1 to \bar{G}	"	"	"		
		303	"	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to \bar{G}	"	"
		304	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to \bar{G}	"	"
		305	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B0 to \bar{G}	"	"
		306	2.7 V	2.7 V	2.7 V	IN	GND	2.7 V	"	"	"	"	"	"	"	"	"	"	2.7 V	2.7 V	2.7 V	2.7 V	"	B1 to \bar{G}	"	"
		307	"	IN	"	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to \bar{G}	"	"
		308	"	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to \bar{G}	"	"
		309	"	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B0 to \bar{G}	"	"
		310	"	GND	"	IN	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to \bar{G}	"	"
t_{PHL7}	t_{PHL7}	Test no.	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	\bar{G}	P	Cn	B3	A3	E2	A2	V _{CC}	5.0 V	B0 to \bar{G}	3.0	11.0 ns
		311	"	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to \bar{G}	"	"
		312	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to \bar{G}	"	"
		313	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to \bar{G}	"	"
		314	"	GND	"	IN	"	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to \bar{P}	2.0	"
		315	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to \bar{P}	"	"
		316	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to \bar{P}	"	"
		317	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to \bar{P}	"	"
		318	2.7 V	2.7 V	IN	2.7 V	GND	2.7 V	"	"	"	"	"	"	"	"	"	"	2.7 V	2.7 V	2.7 V	2.7 V	"	A0 to \bar{P}	"	"
		319	IN	"	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to \bar{P}	"	"
t_{PHL7}	t_{PHL7}	Test no.	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	\bar{G}	P	Cn	B3	A3	E2	A2	V _{CC}	5.0 V	A3 to \bar{P}	2.0	9.5 ns
		320	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to \bar{P}	"	"
		321	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to \bar{P}	"	"
		322	"	GND	IN	GND	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to \bar{P}	"	"
		323	IN	"	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to \bar{P}	"	"
		324	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to \bar{P}	"	"
		325	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to \bar{P}	"	"
		326	GND	"	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to \bar{P}	3.0	9.5 ns
		327	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to \bar{P}	"	"
		328	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to \bar{P}	"	"
9 $T_c = 25^\circ\text{C}$	t_{PHL7}	Test no.	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	\bar{G}	P	Cn	B3	A3	E2	A2	V _{CC}	5.0 V	A3 to \bar{P}	2.0	9.5 ns
		329	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to \bar{P}	"	"
		330	2.7 V	2.7 V	IN	2.7 V	GND	2.7 V	"	"	"	"	"	"	"	"	"	"	2.7 V	2.7 V	2.7 V	2.7 V	"	A1 to \bar{P}	"	"
		331	IN	"	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to \bar{P}	"	"
		332	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to \bar{P}	"	"
		333	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to \bar{P}	"	"
		334	"	GND	IN	GND	2.7 V	"	"	"	"	"	"	"	"	"	"	"	2.7 V	GND	2.7 V	2.7 V	"	A1 to \bar{P}	"	"
9 $T_c = 25^\circ\text{C}$	t_{PHL7}	Test no.	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	\bar{G}	P	Cn	B3	A3	E2	A2	V _{CC}	5.0 V	A3 to \bar{P}	2.0	9.5 ns
		335	IN	"	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to \bar{P}	"	"
		336	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to \bar{P}	"	"
		337	2.7 V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to \bar{P}	"	"

See footnotes at end of device type 03.

TABLE III. Group A inspection for device type 03.
Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	Mil-STD-883 R, S, 2	Cases												Measured terminal	Test limits	Unit						
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
$T_c = 25^\circ\text{C}$	t_{PL8}	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	\bar{G}	P	Cn	B3	A3	B2	A2	V _{CC}		
		338	2.7V	2.7V	IN	2.7V	GND	GND				OUT	2.7V	2.7V	2.7V	2.7V	"	"	"	"	"	5.0V	
		339	"	IN	"	2.7V	"	"														B0 to \bar{P}	
		340	"	2.7V	"	"	"	"														B1 to \bar{P}	
		341	"	2.7V	"	"	"	"														B2 to \bar{P}	
		342	GND	GND	GND	IN	GND	2.7V	"								GND	GND	GND	GND	GND	"	
		343	"	IN	"	GND	"	"														B0 to \bar{P}	
		344	"	GND	"	"	"	"														B1 to \bar{P}	
		345	"	GND	"	"	"	"														B2 to \bar{P}	
		346	"	2.7V	"	IN	2.7V	"														B3 to \bar{P}	
t_{PL8}	t_{PL8}	347	"	IN	"	2.7V	"	"														B0 to \bar{P}	
		348	"	2.7V	"	"	"	"														B1 to \bar{P}	
		349	"	"	"	"	"	"														B2 to \bar{P}	
		350	"	2.7V	"	2.7V	IN	"	GND	"												B3 to \bar{P}	
		351	"	IN	"	2.7V	"	"														B0 to \bar{P}	
		352	"	2.7V	"	"	"	"														B1 to \bar{P}	
		353	"	2.7V	"	"	"	"														B2 to \bar{P}	
		354	GND	GND	GND	IN	GND	2.7V	"													B3 to \bar{P}	
		355	"	IN	"	GND	"	"														B0 to \bar{P}	
		356	"	GND	"	"	"	"														B1 to \bar{P}	
t_{PL9}	t_{PL9}	357	"	GND	"	"	"	"														B2 to \bar{P}	
		358	"	2.7V	"	IN	2.7V	"														B3 to \bar{P}	
		359	"	IN	"	2.7V	"	"														B0 to \bar{P}	
		360	"	2.7V	"	"	"	"														B1 to \bar{P}	
		361	"	"	"	"	"	"														B2 to \bar{P}	
		362	"	2.7V	"	2.7V	2.7V	IN	2.7V	GND	"											B3 to \bar{P}	
		363	"	2.7V	"	2.7V	"	IN	GND	"												15.0	
		364	GND	"	GND	"	2.7V	GND	IN	"												S0 to \bar{G}	
		365	2.7V	"	2.7V	"	IN	2.7V	GND	"												S1 to \bar{G}	
		366	2.7V	"	2.7V	"	2.7V	IN	GND	"												S2 to \bar{G}	
t_{PL10}	t_{PL10}	367	GND	"	GND	"	2.7V	GND	IN	"												13.5	
		368	GND	"	GND	"	IN	2.7V	GND	"												S0 to \bar{G}	
		369	2.7V	GND	2.7V	IN	GND	"														S1 to \bar{G}	
		370	GND	GND	GND	2.7V	GND	IN	"													S2 to \bar{G}	

See footnotes at end of device type 03.

TABLE III. Group A inspection for device type 03.
 Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

Subgroup	Symbol	MIL-STD-883	Cases R, S, 2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Measured terminal	Test limits	Unit	
		method	Test no.	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	\bar{G}	\bar{P}	Cn	B3	A3	E2	A2	V_{cc}	Min	Max		
9	I_{PHL10}	3003	371	GND	2.7V	GND	2.7V	IN	2.7V	GND			GND			OUT	GND	2.7V	GND	2.7V	GND	5.0V	S0 to \bar{P}	3.0	13.5	ns	
Tc = 25°C	Fig. 4	372	2.7V	GND	2.7V	GND	2.7V	IN	GND	"			"			"	GND	2.7V	GND	2.7V	"	S1 to \bar{P}	"	"	"		
	"	373	GND	GND	GND	2.7V	GND	IN					"			"	GND	GND	GND	GND	"	S2 to \bar{P}	"	"	"		
10	Same tests as subgroup 9, except Tc = +125°C and use limits from table I.																										
11	Same tests as subgroup 10, except Tc = -55°C and use limits from table I.																										
12	I_L limits (mA) min/max values for circuit shown:																										
	Parameter	Test no.		A		B		C																			
	I_{LL1}	48 - 50						-0.12/-0.6																			
	I_{LL2}	51 - 59						-0.12/-2.4																			

2/ H ≥ 1.5 V, L ≤ 1.5 V ; A = 2.5 V, B = 0.5 V.

3/ Perform function sequence at $V_{cc} = 4.5$ V and repeat at $V_{cc} = 5.5$ V.

TABLE III. Group A inspection for device type 04.

See footnotes at end of device type 04.

TABLE III. Group A inspection for device type 04.

Subgroup	Symbol	MIL-STD-883 method	Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).																			Measured terminal	Test limits	Unit			
			Cases R, S, 2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
$T_c = 25^\circ C$	I_{H1}	3009	60	2.7V	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	OVR	Cn + 4	Cn	B3	A3	E2	A2	V _{CC}	A1	20 μA	
		"	61	2.7V																					"	B1	"
		"	62	2.7V																					"	A0	"
		"	63	2.7V																					"	B0	"
		"	64	2.7V																					"	S0	"
		"	65	2.7V																					"	S1	"
		"	66	2.7V																					"	S2	"
		"	67	2.7V																					"	Cn	"
		"	68	2.7V																					"	B3	"
I_{H2}	I_{H1}	"	69	2.7V																					"	A3	"
		"	70	2.7V																					"	B2	"
		"	71	2.7V																					"	A2	"
		"	72	7.0V																					"	A1	100
		"	73	7.0V																					"	B1	"
		"	74	7.0V																					"	A0	"
		"	75	7.0V																					"	B0	"
		"	76	7.0V																					"	S0	"
		"	77	7.0V																					"	S1	"
I_{O1}	I_{O2}	"	78	7.0V																					"	S2	"
		"	79	7.0V																					"	Cn	"
		"	80	7.0V																					"	B3	"
		"	81	7.0V																					"	A3	"
		"	82	7.0V																					"	B2	"
		"	83	7.0V																					"	A2	"
		"	84	7.0V																					"	F0	-60
		"	85	7.0V																					"	F1	"
		"	86	7.0V																					"	F2	"
I_{O2}	I_{O1}	"	87	7.0V																					"	F3	"
		"	88	7.0V																					"	OVR	"
		"	89	7.0V																					"	Cn + 4	"
		"	90	7.0V																					"	F0	60
		"	91	7.0V																					"	F1	"
		"	92	7.0V																					"	F2	"
		"	93	7.0V																					"	F3	"
		"	94	7.0V																					"	OVR	"
		"	95	7.0V																					"	Cn + 4	"
I_{OC}	I_{OC}	"	96	7.0V																					"	5.5 V	89
		"	97	7.0V																					"	V _{CC}	"
$T_c = 25^\circ C$	I_{O3}	3014	97	B	B	B	B	B	B	B	B	L	L	GND	L	L	H	H	H	B	B	B	B	All outputs	3/		
		"	98	"	"	"	"	"	"	"	"	A	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
		"	99	"	"	"	"	"	"	"	"	A	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	100	"	"	"	"	"	"	"	"	A	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	101	A	B	A	B	A	B	A	B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	102	A	A	A	A	B	B	B	B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	103	B	B	B	B	B	B	B	B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	104	B	A	B	A	B	A	B	A	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	105	A	B	A	B	A	B	A	B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
$T_c = 25^\circ C$	I_{O3}	"	106	A	A	A	A	B	B	B	B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	107	B	B	B	B	A	A	A	A	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	108	B	A	B	A	B	A	B	A	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	109	A	B	A	B	A	B	A	B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	110	A	A	A	A	B	B	B	B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	111	B	B	B	B	B	B	B	B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	112	B	A	B	A	B	A	B	A	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	113	A	B	A	B	A	B	A	B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	114	A	A	A	A	B	B	B	B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
I_{O3}	I_{O3}	"	115	B	B	B	B	A	A	A	A	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
		"	116	B	A	B	A	B	A	B	A	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	

See footnotes at end of device type 04.

TABLE III. Group A inspection for device type 04.

Subgroup	Symbol	MIL-STD-883 R, S, 2	Cases	Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).																Measured terminal All	Test limits Min / Max	Unit		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
7 $T_C = 25^\circ\text{C}$	3014	"	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	OVR	Cn+4	Cn	B3	A3	B2	A2	V _{CC}		
	117	A	B	A	A	A	"	"	L	H	GND	H	H	L	L	B	B	A	B	A	A	"		
	118	A	A	A	A	A	"	"	H	H	"	H	H	"	L	A	A	A	A	A	A	"		
	119	B	B	B	B	B	"	"	H	L	"	L	L	"	L	B	B	B	B	A	B	"		
	120	B	A	B	A	A	"	"	L	"	"	L	"	"	H	"	A	B	A	B	A	"		
	121	A	B	A	B	A	"	"	L	"	"	H	H	"	H	"	B	A	B	A	B	"		
	122	A	A	A	A	A	"	"	H	L	"	H	H	"	L	B	B	B	B	A	A	"		
	123	B	B	B	B	B	A	A	"	H	L	"	L	"	H	"	A	B	B	B	A	"		
	124	B	A	B	A	A	"	"	H	H	"	H	H	"	H	"	A	B	A	B	A	"		
	125	A	B	A	B	A	"	"	H	H	"	H	H	"	H	"	B	A	B	A	A	"		
	126	"	A	A	A	A	"	"	H	L	"	L	L	"	H	"	A	B	A	A	"	"		
	127	"	B	"	B	"	"	"	H	H	"	H	H	"	H	"	B	"	B	"	"	"		
	128	B	B	B	B	A	"	"	L	L	"	L	L	"	L	"	B	B	B	B	"	"		
	129	B	A	B	A	A	"	"	H	H	"	H	H	"	H	"	A	B	A	B	A	"		
8	130	A	B	A	B	B	"	"	H	H	"	H	H	"	H	"	B	A	B	A	"	"		
	131	"	A	"	A	A	"	"	H	H	"	H	H	"	H	"	A	"	A	"	A	"		
	132	"	A	"	A	A	"	"	H	H	"	H	H	"	H	"	A	"	A	"	A	"		
	133	B	B	B	B	A	"	"	L	L	"	L	L	"	L	"	B	B	B	B	"	"		
	134	B	A	B	A	A	"	"	H	H	"	H	H	"	H	"	A	B	A	B	A	"		
	135	A	B	A	B	B	"	"	H	H	"	H	H	"	H	"	B	A	B	A	"	"		
	136	"	A	"	A	A	"	"	H	H	"	H	H	"	H	"	A	"	A	"	A	"		
	137	"	A	"	A	A	"	"	H	H	"	H	H	"	H	"	A	"	A	"	A	"		
	138	B	B	B	B	A	"	"	H	H	"	H	H	"	H	"	B	B	B	B	"	"		
	139	B	A	B	A	A	"	"	H	H	"	H	H	"	H	"	A	B	A	B	A	"		
	140	A	B	A	B	A	"	"	H	H	"	H	H	"	H	"	B	A	B	A	"	"		
	141	"	A	"	A	A	"	"	H	H	"	H	H	"	H	"	A	"	A	"	A	"		
	142	"	A	"	A	A	"	"	H	H	"	H	H	"	H	"	A	"	A	"	A	"		
9 t_{PLH} $T_C = 25^\circ\text{C}$	3003	Fig. 4	GND	GND	GND	2.7V	GND	GND	GND	OUT	OUT	GND	OUT	OUT	OUT	IN	GND	GND	GND	5.0V	Cn to F0	3	12	ns
	144	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to F1	"	"	"
	145	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to F2	"	"	"
	146	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F3	"	"	"
	147	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F4	"	"	"
	148	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F5	"	"	"
	149	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F6	"	"	"
	150	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F7	"	"	"
	151	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F8	"	"	"
	152	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F9	"	"	"
	153	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F10	"	"	"
	154	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F11	"	"	"
	155	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F12	"	"	"
	156	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F13	"	"	"
	157	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F14	"	"	"
	158	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F15	"	"	"
	159	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F16	"	"	"
	160	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F17	"	"	"
	161	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F18	"	"	"
	162	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F19	"	"	"
	163	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F20	"	"	"
	164	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F21	"	"	"
	165	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F22	"	"	"
	166	"	"	"	"	"	"	"	"	GND	2.7V	"	OUT	OUT	OUT	OUT	"	"	"	"	Cn to F23	"	"	"

See footnotes at end of device type 04.

TABLE III. Group A inspection for device type 04.

Subgroup	Symbol	MIL-STD-883 R, S, 2	Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).																		Measured terminal Min	Measured terminal Max		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
9 $T_C = 25^\circ C$	t_{PLH2}	Test no.	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	OVR	Cn + 4	Cn	B3	E2	A2	V _{CC}	terminal		
		3003	"	2.7 V	IN	2.7 V	GND	GND	GND	OUT	"	GND	"	"	2.7 V	2.7 V	2.7 V	2.7 V	2.7 V	2.7 V	5.0 V	A0 to F0	4	
		167	IN	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	A1 to F1	"
		168	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	A2 to F2	"
		169	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	A3 to F3	"
		170	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	A0 to F0	"
		171	"	"	IN	"	GND	2.7 V	"	OUT	"	"	GND	"	"	"	"	"	"	"	"	"	A1 to F1	"
		172	IN	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	A2 to F2	"
		173	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	A3 to F3	"
		174	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	A0 to F0	"
t_{PLH2}	t_{PLH2}	Test no.	175	"	IN	"	2.7 V	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to F1	"
		176	IN	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to F2	"
		177	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to F3	"
		178	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to F0	"
		179	GND	IN	GND	GND	GND	2.7 V	OUT	"	"	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	A1 to F1	"
		180	IN	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to F2	"
		181	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to F3	"
		182	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to F0	3.5
		183	2.7 V	IN	2.7 V	"	GND	OUT	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	12.5	
		184	IN	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to F1	"
t_{PLH3}	t_{PLH3}	Test no.	185	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	A2 to F2	"
		186	"	"	IN	"	GND	2.7 V	"	OUT	"	"	GND	"	"	"	"	"	"	"	"	"	A3 to F3	"
		187	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to F0	"
		188	IN	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to F1	"
		189	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to F2	"
		190	"	"	IN	"	2.7 V	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	A3 to F3	"
		191	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to F0	"
		192	IN	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to F1	"
		193	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to F2	"
		194	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to F3	"
t_{PLH3}	t_{PLH3}	Test no.	195	GND	IN	GND	GND	2.7 V	OUT	"	OUT	"	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	A0 to F0	"
		196	IN	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to F1	"
		197	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to F2	"
		198	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to F3	"
		199	2.7 V	"	IN	2.7 V	GND	GND	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B0 to F0	4
		200	"	IN	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B1 to F1	"
		201	"	"	IN	"	2.7 V	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B2 to F2	"
		202	"	"	IN	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B3 to F3	"
		203	"	"	IN	"	GND	2.7 V	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	B0 to F0	"
		204	"	IN	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B1 to F1	"
t_{PLH3}	t_{PLH3}	Test no.	205	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B2 to F2	"
		206	"	IN	"	GND	GND	2.7 V	OUT	"	OUT	"	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	B3 to F3	"
		207	"	"	IN	"	2.7 V	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B0 to F0	"
		208	"	"	IN	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B1 to F1	"
		209	"	"	IN	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B2 to F2	"
		210	"	"	IN	"	GND	GND	2.7 V	OUT	"	OUT	"	"	"	"	"	"	"	"	"	"	B3 to F3	"
		211	"	"	IN	"	GND	GND	2.7 V	OUT	"	OUT	"	"	"	"	"	"	"	"	"	"	B0 to F0	"
		212	"	IN	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B1 to F1	"
		213	"	"	IN	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B2 to F2	"
		214	"	"	IN	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B3 to F3	"
t_{PLH3}	t_{PLH3}	Test no.	215	GND	GND	IN	2.7 V	"	OUT	"	"	OUT	"	"	"	GND	GND	GND	GND	GND	GND	GND	B0 to F0	"
		216	IN	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B1 to F1	"
		217	"	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B2 to F2	"
		218	"	2.7 V	IN	GND	2.7 V	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B3 to F3	"
		219	2.7 V	IN	GND	2.7 V	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	B0 to F0	"
		220	IN	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B1 to F1	"
		221	"	"	IN	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B2 to F2	"
		222	"	"	IN	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	B3 to F3	"

See footnotes at end of device type 04.

TABLE III. Group A inspection for device type 04.

		Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).																									
Subgroup	Symbol	MIL-STD-883 R, S, 2	Cases	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Measured terminal	Test limits	Unit	
Tc = 25°C	tPhL3	3003	223	2.7V	IN	A0	B0	S0	S1	S2	F0	F1	GND	F2	F3	OVR	Cn + 4	Cn	B3	A3	E2	A2	Vcc	terminal	Min / Max		
		224	"	IN	"	2.7V	"	GND	"	GND	OUT	"	GND	"	"	"	"	"	"	"	"	"	2.7V	5.0 V	BO to F0	3.5 / 12.5 ns	
		225	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	B1 to F1	"	"	
		226	"	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	B2 to F2	"	"	
		227	"	"	"	IN	GND	2.7V	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to F3	"	"	
		228	"	IN	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	BO to F0	"	"	
		229	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to F1	"	"	
		230	"	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to F2	"	"	
		231	"	"	IN	2.7V	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to F3	"	"	
		232	"	IN	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	BO to F0	"	"	
tPh4		233	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to F1	"	"	
		234	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to F2	"	"	
		235	"	"	IN	GND	GND	2.7V	OUT	"	"	"	"	GND	"	"	"	"	"	"	"	"	"	B3 to F3	"	"	
		236	"	IN	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	BO to F0	"	"	
		237	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to F1	"	"	
		238	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to F2	"	"	
		239	GND	IN	2.7V	"	"	OUT	"	"	"	"	"	GND	"	"	"	GND	"	"	"	"	"	B3 to F3	"	"	
		240	"	IN	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	BO to F0	"	"	
		241	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to F1	"	"	
		242	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to F2	"	"	
tPh4		243	2.7V	IN	GND	2.7V	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	2.7V	2.7 V	2.7V	"
		244	"	IN	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	IN	"	"	
		245	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	GND	"	"	
		246	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	GND	"	"	
		247	GND	GND	GND	IN	"	GND	OUT	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	SO to F0	4	20	
		248	"	"	"	"	"	GND	OUT	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	SO to F1	"	"	
		249	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	SO to F2	"	"	
		250	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	SO to F3	"	"	
		251	"	2.7V	"	2.7V	IN	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	S1 to F1	"	"	
		252	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	S1 to F2	"	"	
tPh4		253	"	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	S1 to F3	"	"	
		254	"	"	"	"	GND	"	GND	IN	"	OUT	"	"	"	"	"	"	"	"	"	"	"	GND	"	"	
		255	"	GND	"	GND	"	GND	IN	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	S2 to F0	"	"	
		256	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	S2 to F1	"	"	
		257	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	S2 to F2	"	"	
		258	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	S2 to F3	"	"	
		259	"	"	"	"	IN	2.7V	GND	OUT	"	"	"	"	OUT	"	"	"	"	"	"	"	"	SO to F0	"	14	
		260	"	"	"	"	"	GND	IN	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	S1 to F1	"	"	
		261	"	"	"	"	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	"	S1 to F2	"	"	
		262	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	S1 to F3	"	"	
tPh5		263	"	2.7V	"	2.7V	IN	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	S1 to F1	"	"	
		264	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	S1 to F2	"	"	
		265	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	S1 to F3	"	"	
		266	"	GND	"	GND	IN	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	S2 to F0	"	"	
		267	"	GND	"	GND	IN	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	S2 to F1	"	"	
		268	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	S2 to F2	"	"	
		269	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	"	S2 to F3	"	"	
		270	"	"	"	"	"	OUT	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	"	A0 to OVR	6	15.5	
		271	2.7V	"	IN	"	GND	"	2.7V	"	"	OUT	"	"	"	"	"	"	"	"	"	"	"	A1 to OVR	"	"	
		272	2.7V	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to OVR	"	"	
tPh5		273	2.7V	"	2.7V	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to OVR	"	"	
		274	2.7V	"	2.7V	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to OVR	"	"	
		275	2.7V	"	2.7V	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to OVR	"	"	
		276	2.7V	"	2.7V	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to OVR	"	"	
		277	2.7V	"	2.7V	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to OVR	"	"	
		278	2.7V	"	2.7V	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to OVR	"	"	
		279	2.7V	"	2.7V	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to OVR	"	"	
		280	2.7V	"	2.7V	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to OVR	"	"	
		281	2.7V	"	2.7V	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to OVR	"	"	
		282	2.7V	"	2.7V	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	2.7V	"	"	

See footnotes at end of device type 04.

TABLE III. Group A inspection for device type 04.

Subgroup	Symbol	MIL-STD-883 R, S, 2	Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).																Measured terminal Min	Measured terminal Max		
			Cases	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
9 $T_C = 25^\circ C$	t_{PHL5}	Test no.	A1	B1	A0	B0	S0	S1	S2	F0	F1	GND	GND	F2	F3	OVR	Cn + 4	Cn	B3	A3	B2	
		3003	2.7V	GND	"	2.7V	GND	GND	2.7V	"	"	"	"	"	"	"	GND	2.7V	GND	2.7V	5.0V	A0 to OVR
		284	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to OVR
		285	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to OVR
		286	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to OVR
		287	"	2.7V	IN	2.7V	"	"	"	"	"	"	"	"	"	"	2.7V	"	2.7V	"	"	A0 to OVR
		288	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to OVR
		289	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to OVR
		290	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to OVR
		291	"	"	IN	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to OVR
10 t_{PLH6}	t_{PLH6}	292	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to OVR
		293	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to OVR
		294	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to OVR
		295	"	GND	"	IN	GND	GND	"	"	"	"	"	"	"	"	GND	2.7V	GND	"	"	B0 to OVR
		296	"	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to OVR
		297	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to OVR
		298	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	GND	"	"	"	B3 to OVR
		299	"	2.7V	IN	2.7V	"	"	"	"	"	"	"	"	"	"	2.7V	"	2.7V	"	"	B0 to OVR
		300	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to OVR
		301	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to OVR
11 t_{PHL6}	t_{PHL6}	302	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to OVR
		303	"	"	"	IN	"	"	"	"	"	"	"	"	"	"	"	2.7V	"	"	"	B0 to OVR
		304	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to OVR
		305	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to OVR
		306	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to OVR
		307	"	GND	"	IN	GND	GND	"	"	"	"	"	"	"	"	GND	2.7V	GND	"	"	B0 to OVR
		308	"	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to OVR
		309	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to OVR
		310	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	GND	"	"	"	B3 to OVR
		311	"	2.7V	IN	2.7V	"	"	"	"	"	"	"	"	"	"	2.7V	"	2.7V	"	"	B0 to OVR
12 t_{PHL7}	t_{PHL7}	312	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to OVR
		313	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to OVR
		314	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to OVR
		315	"	"	IN	"	"	"	"	"	"	"	"	"	"	"	"	2.7V	"	"	"	B0 to OVR
		316	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to OVR
		317	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to OVR
		318	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to OVR
		319	GND	GND	IN	GND	"	GND	GND	"	"	"	"	"	"	OUT	"	GND	GND	GND	"	A0 to Cn + 4
		320	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to Cn + 4
		321	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to Cn + 4
13 t_{PHL7}	t_{PHL7}	322	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to Cn + 4
		323	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to Cn + 4
		324	2.7V	2.7V	IN	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	2.7V	2.7V	2.7V	"	A3 to Cn + 4
		325	2.7V	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A0 to Cn + 4
		326	"	"	IN	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to Cn + 4
		327	GND	"	IN	"	"	"	"	"	"	"	"	"	"	"	"	GND	"	"	"	A2 to Cn + 4
		328	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	GND	"	"	A3 to Cn + 4
		329	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to Cn + 4
		330	"	"	GND	IN	GND	"	GND	"	"	"	"	"	"	"	"	GND	"	"	"	A2 to Cn + 4
		331	"	GND	"	GND	"	"	"	"	"	"	"	"	"	"	"	2.7V	GND	GND	"	A3 to Cn + 4
14 t_{PHL7}	t_{PHL7}	332	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to Cn + 4
		333	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to Cn + 4
		334	2.7V	2.7V	IN	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	GND	"	"	"	A3 to Cn + 4
		335	2.7V	"	2.7V	IN	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	2.7V	2.7V	2.7V	"	A0 to Cn + 4
		336	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to Cn + 4
		337	2.7V	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to Cn + 4
		338	GND	"	IN	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to Cn + 4
		339	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	GND	"	"	"	A0 to Cn + 4
		340	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A1 to Cn + 4
		341	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A2 to Cn + 4
		342	"	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	A3 to Cn + 4

See footnotes at end of device type 04.

TABLE III. Group A inspection for device type 04.

Subgroup	Symbol	MIL-STD-883 R, S, 2	Terminal conditions (pins not designated may be high $\geq 2.0\text{ V}$; low $\leq 0.8\text{ V}$; or open).																		Measured terminal	Test limits	Unit	
			Cases	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	B2	A2			
$T_c = 25^\circ\text{C}$	t_{PH18}	Test no. 3003	GND	GND	IN	2.7V	GND	S1	S2	F0	F1	GND	GND	OUT	GND	GND	GND	GND	GND	GND	5.0V	B0 to Cn + 4	3.5 - 9.5	
		344	"	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to Cn + 4	"
		345	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to Cn + 4	"
		346	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to Cn + 4	"
		347	2.7V	2.7V	2.7V	IN	GND	2.7V	"	"	"	"	"	"	2.7V	"	B0 to Cn + 4	"						
		348	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to Cn + 4	"
		349	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to Cn + 4	"
		350	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to Cn + 4	"
		351	"	GND	"	IN	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B0 to Cn + 4	"
		352	"	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to Cn + 4	"
t_{PH18}		353	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to Cn + 4	"
		354	"	GND	"	GND	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to Cn + 4	"
		355	"	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B0 to Cn + 4	"
		356	"	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to Cn + 4	"
		357	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to Cn + 4	"
		358	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to Cn + 4	"
		359	2.7V	2.7V	2.7V	IN	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B0 to Cn + 4	"
		360	"	IN	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to Cn + 4	"
		361	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to Cn + 4	"
		362	"	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to Cn + 4	"
t_{PH19}		363	"	GND	"	IN	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B0 to Cn + 4	"
		364	"	IN	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to Cn + 4	"
		365	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B2 to Cn + 4	"
		366	"	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	B3 to Cn + 4	"
		367	2.7V	2.7V	2.7V	IN	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	SO to OVR	"
		368	GND	"	GND	"	GND	IN	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	S1 to OVR	"
		369	GND	"	GND	"	GND	GND	IN	"	"	"	"	"	"	"	"	"	"	"	"	"	S2 to OVR	"
		370	2.7V	"	2.7V	"	IN	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	SO to OVR	"
		371	GND	"	GND	"	GND	IN	"	"	"	"	"	"	"	"	"	"	"	"	"	"	S1 to OVR	"
		372	GND	"	GND	"	GND	GND	IN	"	"	"	"	"	"	"	"	"	"	"	"	"	S2 to OVR	"
t_{PH10}		373	2.7V	"	2.7V	"	IN	2.7V	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	S0 to Cn + 4	6.5 - 16.5
		374	GND	"	GND	"	GND	IN	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	B1 to Cn + 4	"
		375	2.7V	"	2.7V	GND	IN	GND	IN	"	"	"	"	"	"	"	"	"	"	"	"	"	S2 to Cn + 4	"
		376	2.7V	2.7V	2.7V	2.7V	IN	2.7V	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	S0 to Cn + 4	5.0 - 16.0
		377	GND	2.7V	GND	2.7V	GND	IN	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		378	2.7V	GND	2.7V	GND	GND	IN	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		379	GND	GND	GND	2.7V	GND	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		380	"	GND	"	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		381	"	2.7V	"	2.7V	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		382	2.7V	GND	2.7V	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	9.0
t_{PH11}		383	"	GND	"	GND	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		384	"	2.7V	"	2.7V	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		385	"	2.7V	GND	2.7V	GND	2.7V	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		386	GND	GND	GND	2.7V	GND	GND	IN	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		387	"	GND	"	GND	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		388	"	2.7V	"	2.7V	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		389	"	2.7V	GND	2.7V	GND	2.7V	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		390	"	2.7V	"	2.7V	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		391	"	"	"	"	"	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		392	"	"	"	"	"	GND	2.7V	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
t_{PH12}		393	"	GND	"	GND	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	3.0 - 11.0
		394	"	2.7V	"	2.7V	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		395	"	2.7V	GND	2.7V	GND	2.7V	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		396	"	2.7V	GND	2.7V	GND	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		397	"	GND	"	GND	2.7V	GND	GND	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	2.5 - 10.0
		398	"	2.7V	"	2.7V	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		399	"	2.7V	"	2.7V	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"
		400	"	2.7V	"	2.7V	2.7V	GND	2.7V	"	"	"	"	"	"	"	"	"	"	"	"	"	Cn to Cn + 4	"

10

Same tests as subgroup 9, except $T_c = +125^\circ\text{C}$ and use limits from table I.

See footnotes at end of device type 04.

11

Same tests as subgroup 9, except $T_c = -55^\circ\text{C}$ and use limits from table I.

TABLE III. Group A inspection for device type 04.

Terminal conditions (pins not designated may be high ≥ 2.0 V; low ≤ 0.8 V; or open).

1/ I_L limits (mA) min/max values for circuit shown:

Parameter	Test no.	A	B	C
I_{L1}	48 - 50		-0.12/-0.6	
I_{L2}	51 - 59		-0.12/-2.4	

2/ $H \geq 1.5$ V, $L \leq 1.5$ V ; $A = 2.5$ V, $B = 0.5$ V.

3/ Perform function sequence at $V_{CC} = 4.5$ V and repeat at $V_{CC} = 5.5$ V.

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 or in-house contractor personnel, these personnel need to contact the responsible packaging activity to ascertain packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Service or Defense Agency, or within the military service'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.

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 contracting activity in addition to notification to the qualifying activity, if applicable.
- f. Requirements for failure analysis (including required test condition of method 5003 of MIL-STD-883), 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 DSCL-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-HDBK-1331, and as follows:

GND	Ground zero voltage potential
I _{IN}	Current flowing into an input terminal
V _{IN}	Voltage level at an input terminal

6.6 Logistic support. Lead materials and finishes (see 3.4) 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-35810 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	54F181
02	54F182
03	54F381
04	54F382

6.8 Manufacturers' designation. Manufacturers' circuits which form a part of this specification are designated with an "X" as shown in table IV herein.

TABLE IV. Manufacturers' designations.

Device type	Manufacturer's designation		
	Circuit A	Circuit B	Circuit C
	National Semiconductor/ Fairchild Semiconductor	Motorola Inc.	Signetics Corp.
01	X	X	X
02	X	X	
03		X	X
04		X	

6.9 Changes from previous issue. Asterisks are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:

DLA - CC

(Project 5962-2014)

Review activities:

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

NOTE: The activities listed above were interested in this document as of the 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.

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[HMC855LC5TR](#) [NLV14028BDR2G](#) [NLV14051BDR2G](#) [NLV74HC238ADTR2G](#) [715428X](#) [COMX-CAR-210](#) [5962-8607001EA](#) [5962-8756601EA](#) [MAX3783UCM+D](#) [PI5C3253QEX](#) [8CA3052APGGI8](#) [TC74HC4051AF\(EL,F\)](#) [TC74VHC138F\(EL,K,F\)](#) [PI3B3251LE](#)
[PI5C3309UEX](#) [PI5C3251QEX](#) [PI3B3251QE](#) [74VHC4052AFT\(BJ\)](#) [PI3PCIE3415AZHEX](#) [NLV74HC4851AMNTWG](#) [MC74LVX257DG](#)
[M74HC151YRM13TR](#) [M74HC151YTTR](#) [PI5USB31213XEAEX](#) [M74HCT4851ADWR2G](#) [XD74LS154](#) [AP4373AW5-7-01](#) [QS3VH251QG8](#)
[QS4A201QG](#) [HCS301T-ISN](#) [HCS500-I/SM](#) [MC74HC151ADTG](#) [TC4066BP\(N,F\)](#) [74ACT11139PWR](#) [HMC728LC3CTR](#) [74VHC238FT\(BJ\)](#)
[74VHC4066AFT\(BJ\)](#) [74VHCT138AFT\(BJ\)](#)