

REVISIONS

LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
A	Corrected input voltage level on page 10 Figure 4 note 3. Updated boilerplate. - LTG	00-08-08	Monica L. Poelking
B	Update boilerplate to MIL-PRF-38535 requirements. – LTG	01-04-05	Thomas M. Hess
C	Update boilerplate paragraphs to the current MIL-PRF-38535 requirements. - LTG	09-07-15	Thomas M. Hess
D	Remove class M requirements. Update boilerplate paragraphs to the current MIL-PRF-38535 requirements.- jwc	15-06-26	Thomas M. Hess



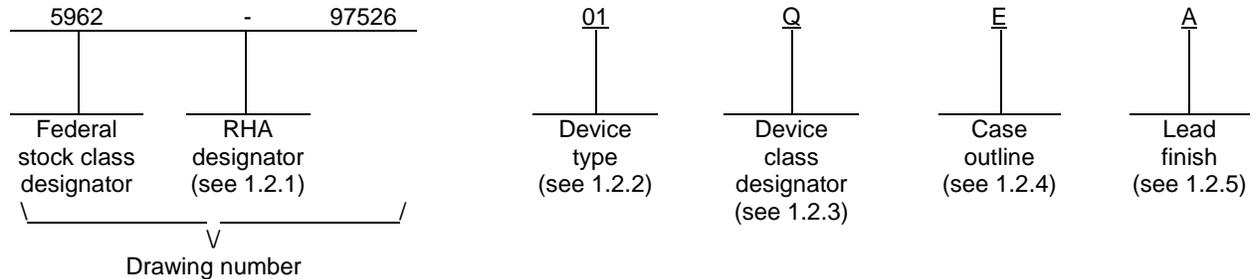
REV																				
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REV STATUS	REV	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13						

PMIC N/A	PREPARED BY Joseph A. Kerby	<p align="center">DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990 http://www.landandmaritime.dla.mil</p>		
<p align="center">STANDARD MICROCIRCUIT DRAWING</p> <p>THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE</p>	CHECKED BY Charles F. Saffle, Jr.			
	APPROVED BY Monica L. Poelking			
	DRAWING APPROVAL DATE 97-03-27			
AMSC N/A	REVISION LEVEL D	SIZE A	CAGE CODE 67268	5962-97526
		SHEET 1 OF 13		

1. SCOPE

1.1 Scope. This drawing documents two product assurance class levels consisting of high reliability (device class Q) and space application (device class V). A choice of case outlines and lead finishes are available and are reflected in the Part or Identifying Number (PIN). When available, a choice of Radiation Hardness Assurance (RHA) levels is reflected in the PIN.

1.2 PIN. The PIN is as shown in the following example:



1.2.1 RHA designator. Device classes Q and V RHA marked devices meet the MIL-PRF-38535 specified RHA levels and are marked with the appropriate RHA designator. A dash (-) indicates a non-RHA device.

1.2.2 Device type(s). The device type(s) identify the circuit function as follows:

<u>Device type</u>	<u>Generic number</u>	<u>Circuit function</u>
01	54LVC138A	3-line to 8-line decoder/demultiplexer

1.2.3 Device class designator. The device class designator is a single letter identifying the product assurance level as follows:

<u>Device class</u>	<u>Device requirements documentation</u>
Q or V	Certification and qualification to MIL-PRF-38535

1.2.4 Case outline(s). The case outline(s) 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	GDFP1-F16 or CDFP2-F16	16	Flat pack
2	CQCC1-N20	20	Square leadless chip carrier

1.2.5 Lead finish. The lead finish is as specified in MIL-PRF-38535 for device classes Q and V.

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1.3 Absolute maximum ratings. 1/ 2/ 3/

Supply voltage range (V_{CC}).....	-0.5 V dc to +6.5 V dc
DC input voltage range (V_{IN}).....	-0.5 V dc to +6.5 V dc 4/
DC output voltage range (V_{OUT}).....	-0.5 V dc to $V_{CC} + 0.5$ V dc 4/ 5/
DC input clamp current (I_{IK}) ($V_{IN} < 0.0$).....	-50 mA
DC output clamp current (I_{OK}) ($V_{OUT} < 0.0$ or $V_{OUT} > V_{CC}$).....	± 50 mA
Continuous output current (I_O) ($V_{OUT} = 0$ to V_{CC}).....	± 50 mA
Continuous current through V_{CC} or GND.....	± 100 mA
Maximum power dissipation at $T_A = +55^\circ\text{C}$ (in still air) (P_D).....	550 mW 6/
Storage temperature range (T_{STG}).....	-65°C to $+150^\circ\text{C}$
Lead temperature (soldering, 10 seconds).....	$+300^\circ\text{C}$
Thermal resistance, junction-to-case (θ_{JC}).....	See MIL-STD-1835
Junction temperature (T_J).....	$+150^\circ\text{C}$

1.4 Recommended operating conditions. 2/ 3/ 7/

Supply voltage range (V_{CC}):	
Operating.....	+2.0 V dc to +3.6 V dc
Data retention only.....	+1.5 V dc
Minimum high level input voltage (V_{IH}): $V_{CC} = 2.7$ V to 3.6 V.....	+2.0 V
Maximum low level input voltage (V_{IL}): $V_{CC} = 2.7$ V to 3.6 V.....	+0.8 V
Input voltage range (V_{IN}).....	+0.0 V dc to 5.5 V dc
Output voltage range (V_{OUT}).....	+0.0 V dc to V_{CC}
Maximum high level output current (I_{OH}):	
$V_{CC} = 2.7$ V.....	-12 mA
$V_{CC} = 3.0$ V.....	-24 mA
Maximum low level output current (I_{OL}):	
$V_{CC} = 2.7$ V.....	+12 mA
$V_{CC} = 3.0$ V.....	+24 mA
Input transition rise or fall rate ($\Delta t/\Delta V$):.....	0.0 ns/V to 10.0 ns/V
Case operating temperature range (T_C).....	-55°C to $+125^\circ\text{C}$

- 1/ Stresses above the absolute maximum rating may cause permanent damage to the device. Extended operation at the maximum levels may degrade performance and affect reliability.
- 2/ Unless otherwise noted, all voltages are referenced to GND.
- 3/ The limits for the parameters specified herein shall apply over the full specified V_{CC} range and case temperature range of -55°C to $+125^\circ\text{C}$.
- 4/ The input and output negative-voltage ratings may be exceeded provided that the input and output clamp-current ratings are observed.
- 5/ The value of V_{CC} is provided in the recommended operating conditions table.
- 6/ The maximum package power dissipation is calculated using a junction temperature of 150°C and a board trace length of 750 mils.
- 7/ Unused inputs must be held high or low to prevent them from floating.

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2. APPLICABLE DOCUMENTS

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

DEPARTMENT OF DEFENSE SPECIFICATION

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

DEPARTMENT OF DEFENSE STANDARDS

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

DEPARTMENT OF DEFENSE HANDBOOKS

MIL-HDBK-103 - List of Standard Microcircuit Drawings.
 MIL-HDBK-780 - Standard Microcircuit Drawings.

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

2.2 Non-Government publications. The following document(s) form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents cited in the solicitation or contract.

JEDEC – SOLID STATE TECHNOLOGY ASSOCIATION (JEDEC)

JESD 52 - Standard for Description of Low voltage TTL-compatible CMOS Logic Device

(Copies of these documents are available online at <http://www.jedec.org> or from JEDEC – Solid State Technology Association, 3103 North 10th Street, Suite 240–S, Arlington, VA 22201.)

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

3. REQUIREMENTS

3.1 Item requirements. The individual item requirements for device classes Q and V 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.

3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535 and herein for device classes Q and V.

3.2.1 Case outlines. The case outlines shall be in accordance with 1.2.4 herein.

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

3.2.3 Truth table. The truth table shall be as specified on figure 2.

3.2.4 Logic diagram. The logic diagram shall be as specified on figure 3.

3.2.5 Switching waveforms and test circuit. The switching waveforms and test circuit shall be as specified on figure 4.

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3.3 Electrical performance characteristics and postirradiation parameter limits. Unless otherwise specified herein, the electrical performance characteristics and postirradiation parameter limits are as specified in table I and shall apply over the full case operating temperature range.

3.4 Electrical test requirements. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are defined in table I.

3.5 Marking. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked. For packages where marking of the entire SMD PIN number is not feasible due to space limitations, the manufacturer has the option of not marking the "5962-" on the device. For RHA product using this option, the RHA designator shall still be marked. Marking for device classes Q and V shall be in accordance with MIL-PRF-38535.

3.5.1 Certification/compliance mark. The certification mark for device classes Q and V shall be a "QML" or "Q" as required in MIL-PRF-38535.

3.6 Certificate of compliance. For device classes Q and V, a certificate of compliance shall be required from a QML-38535 listed manufacturer in order to supply to the requirements of this drawing (see 6.6.1 herein). The certificate of compliance submitted to DLA Land and Maritime-VA prior to listing as an approved source of supply for this drawing shall affirm that the manufacturer's product meets, for device classes Q and V, the requirements of MIL-PRF-38535 and herein.

3.7 Certificate of conformance. A certificate of conformance as required for device classes Q and V in MIL-PRF-38535 shall be provided with each lot of microcircuits delivered to this drawing.

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TABLE I. Electrical performance characteristics.

Test and MIL-STD-883 test method <u>1/</u>	Symbol	Test conditions <u>2/</u> -55°C ≤ T _C ≤ +125°C +2.0 V ≤ V _{CC} ≤ +3.6 V unless otherwise specified	V _{CC}	Group A subgroups	Limits <u>3/</u>		Unit	
					Min	Max		
High level output voltage 3006	V _{OH}	For all inputs affecting output under test V _{IN} = V _{IH} or V _{IL} For all other inputs V _{IN} = V _{CC} or GND	I _{OH} = -100 μA	2.7 V and 3.6 V	1, 2, 3	V _{CC} -0.2		V
			I _{OH} = -12 mA	2.7 V	1, 2, 3	2.2		
				3.0 V		2.4		
I _{OH} = -24 mA	3.0 V	1, 2, 3	2.2					
Low level output voltage 3007	V _{OL}	For all inputs affecting output under test V _{IN} = V _{IH} or V _{IL} For all other inputs V _{IN} = V _{CC} or GND	I _{OL} = 100 μA	2.7 V and 3.6 V	1, 2, 3		0.2	V
			I _{OL} = 12 mA	2.7 V	1, 2, 3		0.4	
				3.0 V		1, 2, 3		
Input current high 3010	I _{IH}	For input under test V _{IN} = 5.5 V	3.6 V	1, 2, 3		+5.0	μA	
Input current low 3009	I _{IL}	For input under test V _{IN} = GND	3.6 V	1, 2, 3		-5.0	μA	
Quiescent supply current 3005	I _{CC}	For all inputs V _{IN} = V _{CC} or GND I _{OUT} = 0 A	3.6 V	1, 2, 3		10.0	μA	
Quiescent supply current delta TTL input levels 3005	ΔI _{CC}	One input at V _{CC} -0.6 V Other inputs at V _{CC} or GND	2.7 V and 3.6 V	1, 2, 3		500	μA	
Input capacitance 3012	C _{IN}	T _C = +25°C V _{IN} = V _{CC} or GND See 4.4.1c	3.3 V	4		9.0	pF	
Power dissipation capacitance	C _{PD} <u>4/</u>	See 4.4.1c T _C = +25°C f = 1 MHz	3.3 V	4		90	pF	
Functional test 3014	<u>5/</u>	V _{IN} = V _{IH} or V _{IL} Verify output V _O See 4.4.1b	2.0 V, 2.7 V and 3.6 V	7, 8	L	H		

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test and MIL-STD-883 test method <u>1/</u>	Symbol	Test conditions <u>2/</u> -55°C ≤ T _C ≤ +125°C +2.0 V ≤ V _{CC} ≤ +3.6 V unless otherwise specified	V _{CC}	Group A subgroups	Limits <u>3/</u>		Unit
					Min	Max	
Propagation delay time, An or Bn or Cn to Yn 3003	t _{PHL1} , t _{PLH1} <u>6/</u>	C _L = 50 pF minimum See figure 5	2.7 V	9,10,11		7.9	ns
			3.0 V and 3.6 V		1.0	6.7	
Propagation delay time, G2A or G2B to Yn 3003	t _{PHL2} , t _{PLH2} <u>6/</u>		2.7 V	9,10,11		7.4	
			3.0 V and 3.6 V		1.0	6.5	
Propagation delay time, G1 to Yn 3003	t _{PHL3} , t _{PLH3} <u>6/</u>		2.7 V	9,10,11		6.4	
			3.0 V and 3.6 V		1.0	5.8	

- 1/ For tests not listed in the referenced MIL-STD-883, utilize the general test procedure of 883 under the conditions listed herein.
- 2/ Each input/output, as applicable, shall be tested at the specified temperature, for the specified limits, to the tests in table I herein. Output terminals not designated shall be high level logic, low level logic, or open, except for the I_{CC} test, where the output terminals shall be open. When performing the I_{CC} test, the current meter shall be placed in the circuit such that all current flows through the meter. The values to be used for V_{IH} and V_{IL} shall be the V_{IH} minimum and V_{IL} maximum values listed in section 1.4 herein.
- 3/ For negative and positive voltage and current values, the sign designates the potential difference in reference to GND and the direction of current flow, respectively; and the absolute value of the magnitude, not the sign, is relative to the minimum and maximum limits, as applicable, listed herein.
- 4/ Power dissipation capacitance (C_{PD}) determines both the power consumption (P_D) and current consumption (I_S). Where:

$$P_D = (C_{PD} + C_L) (V_{CC} \times V_{CC})f + (I_{CC} \times V_{CC})$$

$$I_S = (C_{PD} + C_L) V_{CC}f + I_{CC}$$
 f is the frequency of the input signal; and C_L is the external output load capacitance.
- 5/ Tests shall be performed in sequence, attributes data only. Functional tests shall include the truth table and other logic patterns used for fault detection. The test vectors used to verify the truth table shall, at a minimum, test all functions of each input and output. All possible input to output logic patterns per function shall be guaranteed, if not tested, to the truth table in figure 2 herein. Functional tests shall be performed in sequence as approved by the qualifying activity on qualified devices. Allowable tolerances per MIL-STD-883 may be incorporated. For outputs, L ≤ V_{IL} max, H ≥ V_{IH} min, where V_{IL} max and V_{IH} min are listed in section 1.4 herein.
- 6/ For propagation delay tests, all paths must be tested.

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Device type	01	
Case outlines	C, D	2
Terminal number	Terminal symbol	Terminal symbol
1	A	NC
2	B	A
3	C	B
4	$\overline{G2A}$	\overline{C}
5	$\overline{G2B}$	$\overline{G2A}$
6	G1	NC
7	Y7	$\overline{G2B}$
8	GND	G1
9	Y6	Y7
10	Y5	GND
11	Y4	NC
12	Y3	Y6
13	Y2	Y5
14	Y1	Y4
15	Y0	Y3
16	V _{CC}	NC
17	---	Y2
18	---	Y1
19	---	Y0
20	---	V _{CC}

NC = No connection

Pin description	
Terminal symbol	Description
$\overline{G2A}$ or $\overline{G2B}$	Enable inputs (active low)
G1	Enable input (active high)
A, B, and C	Select inputs
Y _n (n = 0 to 7)	Outputs

FIGURE 1. Terminal connections.

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Enable Inputs			Select Inputs			Outputs							
G1	$\overline{G2A}$	$\overline{G2B}$	C	B	A	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7
X	H	X	X	X	X	H	H	H	H	H	H	H	H
X	X	H	X	X	X	H	H	H	H	H	H	H	H
L	X	X	X	X	X	H	H	H	H	H	H	H	H
H	L	L	L	L	L	L	H	H	H	H	H	H	H
H	L	L	L	L	H	H	L	H	H	H	H	H	H
H	L	L	L	H	L	H	H	L	H	H	H	H	H
H	L	L	L	H	H	H	H	L	H	H	H	H	H
H	L	L	H	L	H	H	H	H	H	L	H	H	H
H	L	L	H	H	L	H	H	H	H	H	L	H	H
H	L	L	H	H	H	H	H	H	H	H	H	L	H
H	L	L	H	H	H	H	H	H	H	H	H	H	L

H = High voltage level
L = Low voltage level
X = Irrelevant

FIGURE 2. Truth table.

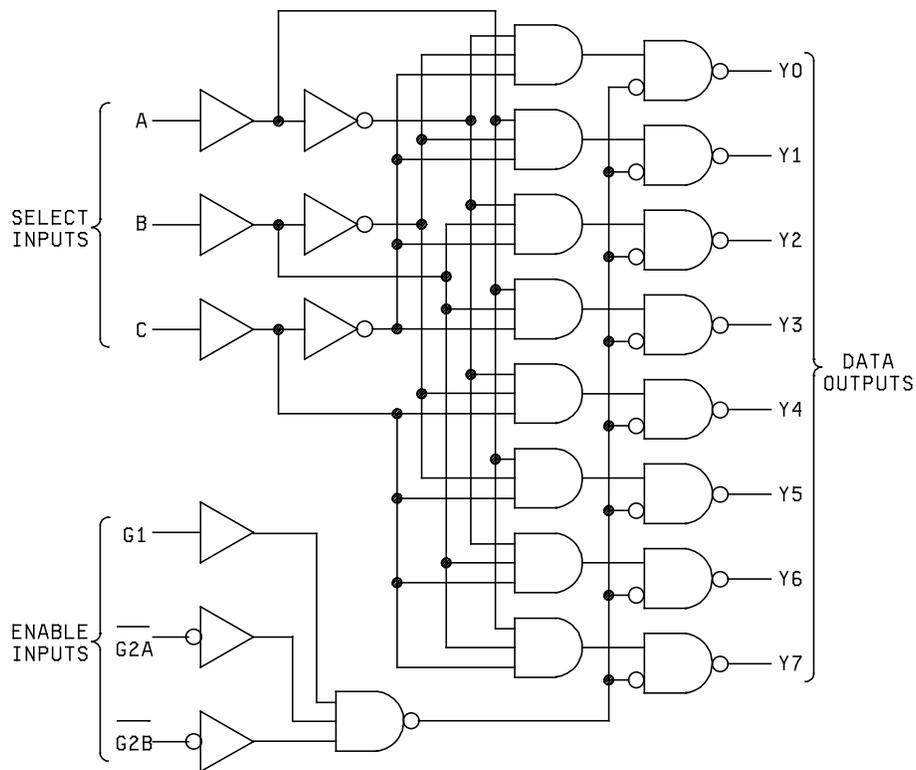


FIGURE 3. Logic diagram.

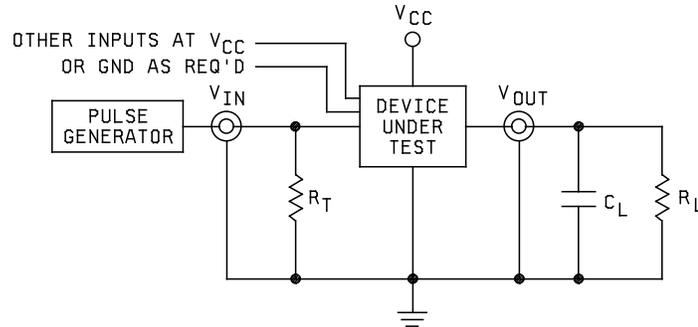
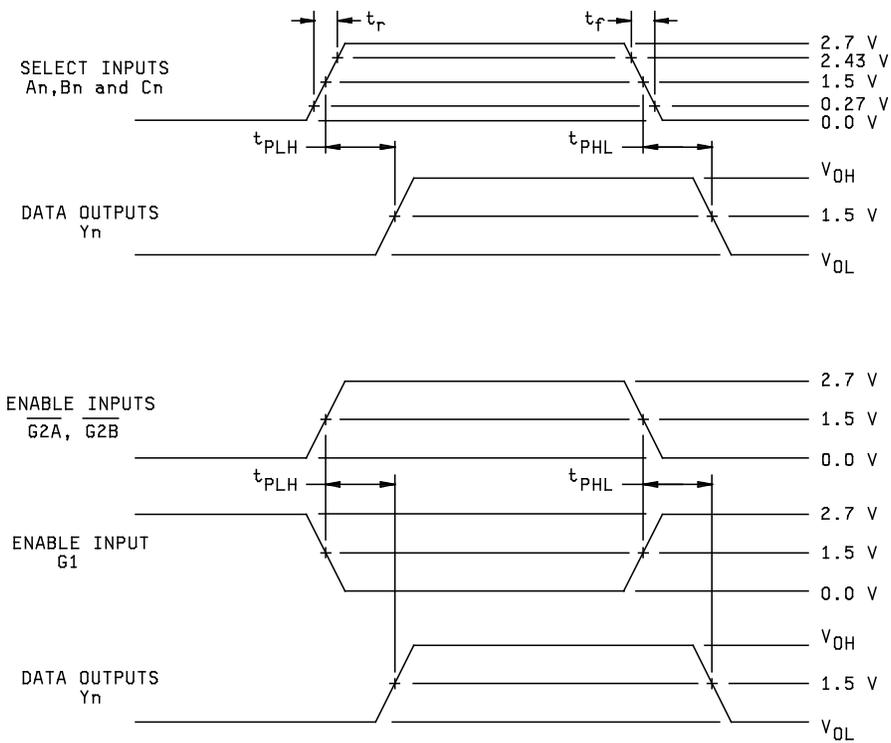
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NOTES:

1. $C_L = 50 \text{ pF}$ (includes test jig and probe capacitance).
2. $R_L = 500\Omega$, $R_T = 50\Omega$ or equivalent.
3. Input signal from pulse generator: $V_{IN} = 0.0 \text{ V to } 2.7 \text{ V}$; $PRR \leq 1 \text{ MHz}$; $t_r = 2.5 \text{ ns}$; $t_f = 2.5 \text{ ns}$; t_r and t_f shall be measured from $0.27 \text{ V to } 2.43 \text{ V}$ and from $2.43 \text{ V to } 0.27 \text{ V}$, respectively; duty cycle = 50 percent.
4. Timing parameters shall be tested at a minimum input frequency of 1 MHz.
5. The outputs are measured one at a time with one transition per measurement.

FIGURE 4. Switching waveforms and test circuit.

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4. VERIFICATION

4.1 Sampling and inspection. For device classes Q and V, 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 affect the form, fit, or function as described herein.

4.2 Screening. For device classes Q and V, screening shall be in accordance with MIL-PRF-38535, and shall be conducted on all devices prior to qualification and technology conformance inspection.

4.2.1 Additional criteria for device classes Q and V.

- 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 revision level control of 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 method 1015 of MIL-STD-883.
- b. Interim and final electrical test parameters shall be as specified in table II herein.
- c. Additional screening for device class V beyond the requirements of device class Q shall be as specified in MIL-PRF-38535, appendix B.

4.3 Qualification inspection for device classes Q and V. Qualification inspection for device classes Q and V shall be in accordance with MIL-PRF-38535. Inspections to be performed shall be those specified in MIL-PRF-38535 and herein for groups A, B, C, D, and E inspections (see 4.4.1 through 4.4.4).

4.4 Conformance inspection. Technology conformance inspection for classes Q and V shall be in accordance with MIL-PRF-38535 including groups A, B, C, D, and E inspections and as specified herein. (see 4.4.1 through 4.4.4).

4.4.1 Group A inspection.

- a. Tests shall be as specified in table II herein.
- b. For device classes Q and V, subgroups 7 and 8 shall include verifying the functionality of the device.
- c. C_{IN} , and C_{PD} shall be measured only for initial qualification and after process or design changes which may affect capacitance. C_{IN} shall be measured between the designated terminal and GND at a frequency of 1 MHz. This test may be performed at 10 MHz and guaranteed, if not tested, at 1 MHz. C_{PD} shall be tested in accordance with the latest revision of JEDEC Standard JESD52 and table I herein. The DC bias for the pin under test (V_{BIAS}) = 2.5 V or 3.0 V. For C_{IN} , and C_{PD} , test all applicable pins on five devices with zero failures.

For C_{IN} a device manufacturer may qualify devices by functional groups. A specific functional group shall be composed of function types, that by design, will yield the same capacitance values when tested in accordance with table I, herein. The device manufacturer shall set a function group limit for the C_{IN} test. The device manufacturer may then test one device functional group, to the limits and conditions specified herein. All other device functions in that particular functional group shall be guaranteed, if not tested, to the limits and test conditions specified in table I herein. The device manufacturers shall submit to DLA Land and Maritime-VA the device functions listed in each functional group and the test results for each device tested.

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TABLE II. Electrical test requirements.

Test requirements	Subgroups (in accordance with MIL-PRF-38535, table III)	
	Device class Q	Device class V
Interim electrical parameters (see 4.2)	---	1
Final electrical parameters (see 4.2)	<u>1/</u> 1, 2, 3, 7, 8, 9, 10, 11	<u>2/</u> 1, 2, 3, 7, 8, 9, 10, 11
Group A test requirements (see 4.4)	1, 2, 3, 4, 7, 8, 9, 10, 11	1, 2, 3, 4, 7, 8, 9, 10, 11
Group C end-point electrical parameters (see 4.4)	1, 2, 3	1, 2, 3, 7, 8, 9, 10, 11
Group D end-point electrical parameters (see 4.4)	1, 2, 3	1, 2, 3
Group E end-point electrical parameters (see 4.4)	1, 7, 9	1, 7, 9

1/ PDA applies to subgroup 1.

2/ PDA applies to subgroups 1 and 7.

4.4.2 Group C inspection. The group C inspection end-point electrical parameters shall be as specified in table II herein.

4.4.2.1 Additional criteria for device classes Q and V. 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 test circuit shall be maintained under document revision level control by the device manufacturer's 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 method 1005 of MIL-STD-883.

4.4.3 Group D inspection. The group D inspection end-point electrical parameters shall be as specified in table II herein.

4.4.4 Group E inspection. Group E inspection is required only for parts intended to be marked as radiation hardness assured (see 3.5 herein).

- a. End-point electrical parameters shall be as specified in table II herein.
- b. For device classes Q and V, the devices or test vehicle shall be subjected to radiation hardness assured tests as specified in MIL-PRF-38535 for the RHA level being tested. All device classes must meet the postirradiation end-point electrical parameter limits as defined in table I at $T_A = +25^\circ\text{C} \pm 5^\circ\text{C}$, after exposure, to the subgroups specified in table II herein.

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

4.5.1 Voltage and current. Unless otherwise specified, all voltages given are referenced to the microcircuit GND terminal. Currents given are conventional current and positive when flowing into the referenced terminal.

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5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38535 for device classes Q and V.

6. NOTES

6.1 Intended use. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.

6.1.1 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.

6.2 Configuration control of SMD's. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished using DD Form 1692, Engineering Change Proposal.

6.3 Record of users. Military and industrial users should inform DLA Land and Maritime when a system application requires configuration control and which SMD's are applicable to that system. DLA Land and Maritime will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronic devices (FSC 5962) should contact DLA Land and Maritime-VA, telephone (614) 692-8108.

6.4 Comments. Comments on this drawing should be directed to DLA Land and Maritime-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-0547.

6.5 Abbreviations, symbols, and definitions. The abbreviations, symbols, and definitions used herein are defined in MIL-PRF-38535 and MIL-HDBK-1331.

6.6 Sources of supply.

6.6.1 Sources of supply for device classes Q and V. Sources of supply for device classes Q and V are listed in QML-38535. The vendors listed in QML-38535 have submitted a certificate of compliance (see 3.6 herein) to DLA Land and Maritime-VA and have agreed to this drawing.

STANDARD MICROCIRCUIT DRAWING DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990	SIZE A		5962-97526
		REVISION LEVEL D	SHEET 13

STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 15-06-26

Approved sources of supply for SMD 5962-97526 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38535 during the next revision. MIL-HDBK-103 and QML-38535 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DLA Land and Maritime-VA. This information bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535. DLA Land and Maritime maintains an online database of all current sources of supply at <http://www.landandmaritime.dla.mil/Programs/Smcr/>.

Standard microcircuit drawing PIN <u>1/</u>	Vendor CAGE number	Vendor similar PIN <u>2/</u>
5962-9752601QEA	01295	SNJ54LVC138AJ
5962-9752601QFA	01295	SNJ54LVC138AW
5962-9752601Q2A	01295	SNJ54LVC138AFK
5962-9752601VEA	01295	SNV54LVC138AJ
5962-9752601VFA	01295	SNV54LVC138AW
5962-9752601V2A	01295	SNV54LVC138AFK

1/ The lead finish shown for each PIN representing a hermetic package is the most readily available from the manufacturer listed for that part. If the desired lead finish is not listed contact the vendor to determine its availability.

2/ Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

Vendor CAGE
number

01295

Vendor name
and address

Texas Instruments Incorporated
Semiconductor Group
8505 Forest Ln.
P.O. Box 660199
Dallas, TX 75243
Point of contact:

U.S. Highway 75 South
P.O. Box 84, M/S 853
Sherman, TX 75090-9493

The information contained herein is disseminated for convenience only and the Government assumes no liability whatsoever for any inaccuracies in the information bulletin.