

REVISIONS

LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
A	Changes in accordance with NOR 5962-R275-92.	92-08-26	Monica L. Poelking
B	Redrawn with changes. Update drawing to current requirements. - gap	07-11-20	Robert M. Heber

The original first sheet of this drawing has been replaced.

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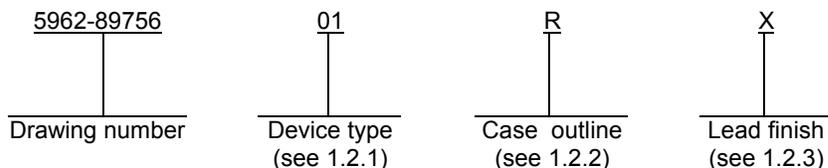
REV STATUS	REV	B	B	B	B	B	B	B	B	B	B	B	B	B	B		
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12				

PMIC N/A	PREPARED BY Larry T. Gauder	<p align="center"><b>DEFENSE SUPPLY CENTER COLUMBUS</b>  <b>COLUMBUS, OHIO 43218-3990</b>  <a href="http://www.dsccl.dla.mil">http://www.dsccl.dla.mil</a></p>														
<p align="center"><b>STANDARD MICROCIRCUIT DRAWING</b></p> <p>THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE</p> <p align="center">AMSC N/A</p>	CHECKED BY Tim H. Noh															
	APPROVED BY Monica L. Poelking	<p align="center">MICROCIRCUIT, DIGITAL, BIPOLAR, LOW POWER SCHOTTKY TTL, 8-BIT SHIFT REGISTERS WITH INPUT LATCHES, MONOLITHIC SILICON</p>														
	DRAWING APPROVAL DATE 92-03-09															
	REVISION LEVEL B		SIZE A	CAGE CODE <b>67268</b>	<b>5962-89756</b>											
		SHEET		1 OF 12												

1. SCOPE

1.1 Scope. This drawing describes device requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535, appendix A.

1.2 Part or Identifying Number (PIN). The complete PIN is as shown in the following example:



1.2.1 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	54LS598	8-bit shift registers with input latches

1.2.2 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>
R	GDIP1-T20 or CDIP2-T20	20	Dual-in-line package
S	GDFP2-F20 or CDFP3-F20	20	Flat package
2	CQCC1-N20	20	Square chip carrier

1.2.3 Lead finish. The lead finish is as specified in MIL-PRF-38535, appendix A.

1.3 Absolute maximum ratings.

Supply voltage range $V_{CC}$ .....	-0.5 V dc to +7.0 V dc
DC input voltage (excluding I/O ports) .....	-1.5 V dc at -18 mA to +7.0 V dc
Voltage applied to a disabled 3-state output (including I/O ports) .....	-0.5 V dc to +5.5 V dc
Storage temperature range .....	-65°C to +150°C
Maximum power dissipation ( $P_D$ ) <sup>1/</sup> .....	467.5 mW
Lead temperature (soldering, 10 seconds) .....	+300°C
Thermal resistance, junction-to-case ( $\theta_{JC}$ ) .....	See MIL-STD-1835
Junction temperature ( $T_J$ ) .....	+175°C

<sup>1/</sup> Maximum power dissipation is defined as  $V_{CC} \times I_{CC}$ , and must withstand the added  $P_D$  due to short-circuit output test; e.g.,  $I_{OS}$ .

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1.4 Recommended operating conditions.

Supply voltage range ( $V_{CC}$ ) .....	+4.5 V dc to +5.5 V dc
Minimum high level input voltage ( $V_{IH}$ ) .....	2.0 V dc
Maximum low level input voltage ( $V_{IL}$ ) .....	0.7 V dc
Maximum input clamp current ( $I_{IC}$ ) .....	-18 mA
Maximum high level output current ( $I_{OH}$ ):	
$Q_H$ .....	-1 mA
$Q_A$ thru $Q_H$ .....	-1 mA
Maximum low-level output current ( $I_{OL}$ ):	
$Q_H$ .....	+8 mA
$Q_A$ thru $Q_H$ .....	+12 mA
Case operating temperature range ( $T_C$ ) .....	-55°C to +125°C
Minimum setup time, ( $t_s$ ):	
Data before RCK $\uparrow$ .....	20 ns
DS before SRCK $\uparrow$ .....	30 ns
SRCKEN low before SRCK $\uparrow$ .....	20 ns
SRCLR inactive before SRCK $\uparrow$ .....	25 ns
SRLOAD inactive before SRCK $\uparrow$ .....	30 ns
RCK $\uparrow$ before SRLOAD $\uparrow$ <u>2/</u> .....	40 ns
SER before SRCK $\uparrow$ .....	20 ns
Minimum hold time, ( $t_h$ ) .....	0 ns
Minimum pulse duration, ( $t_w$ ):	
SRCK high .....	15 ns
SRCK low .....	35 ns
RCK .....	20 ns
SRCLR .....	20 ns
SRLOAD .....	40 ns
Maximum Shift Clock frequency, ( $f_{clock}$ ) .....	20 MHz

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://assist.daps.dla.mil/quicksearch/> or <http://assist.daps.dla.mil> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2/ The RCK  $\uparrow$  before SRLOAD  $\uparrow$  setup time ensures the data saved by RCK  $\uparrow$  will also be loaded into the shift register.

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2.2 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 shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices and as specified herein. Product built to this drawing that is produced by a Qualified Manufacturer Listing (QML) certified and qualified manufacturer or a manufacturer who has been granted transitional certification to MIL-PRF-38535 may be processed as QML product in accordance with the manufacturers approved program plan and qualifying activity approval in accordance with MIL-PRF-38535. This QML flow as documented in the Quality Management (QM) plan may make modifications to the requirements herein. These modifications shall not affect form, fit, or function of the device. These modifications shall not affect the PIN as described herein. A "Q" or "QML" certification mark in accordance with MIL-PRF-38535 is required to identify when the QML flow option is used.

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

3.2.1 Case outlines. The case outlines shall be in accordance with 1.2.2 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 Test circuit and switching waveforms. The test circuit and switching waveforms shall be as specified on figure 4.

3.3 Electrical performance characteristics. Unless otherwise specified herein, the electrical performance characteristics 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 described in table I.

3.5 Marking. Marking shall be in accordance with MIL-PRF-38535, appendix A. 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.

3.5.1 Certification/compliance mark. A compliance indicator "C" shall be marked on all non-JAN devices built in compliance to MIL-PRF-38535, appendix A. The compliance indicator "C" shall be replaced with a "Q" or "QML" certification mark in accordance with MIL-PRF-38535 to identify when the QML flow option is used.

3.6 Certificate of compliance. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-HDBK-103 (see 6.6 herein). The certificate of compliance submitted to DSCC-VA prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-PRF-38535, appendix A and the requirements herein.

3.7 Certificate of conformance. A certificate of conformance as required in MIL-PRF-38535, appendix A shall be provided with each lot of microcircuits delivered to this drawing.

3.8 Notification of change. Notification of change to DSCC-VA shall be required for any change that affects this drawing.

3.9 Verification and review. DSCC, DSCC's agent, and the acquiring activity retain the option to review the manufacturer's facility and applicable required documentation. Offshore documentation shall be made available onshore at the option of the reviewer.

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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C 4.5 V ≤ V <sub>CC</sub> ≤ 5.5 V unless otherwise specified		Group A subgroups	Limits		Unit	
					Min	Max		
High level output voltage	Q	V <sub>OH</sub>	V <sub>CC</sub> = 4.5 V, V <sub>IH</sub> = 2.0 V, V <sub>IL</sub> = 0.7 V	I <sub>OH</sub> = -1 mA	1, 2, 3	2.4		V
	Q <sub>H'</sub>					I <sub>OH</sub> = -1 mA	2.4	
Low level output voltage	Q	V <sub>OL</sub>	V <sub>CC</sub> = 4.5 V, V <sub>IH</sub> = 2.0 V, V <sub>IL</sub> = 0.7 V	I <sub>OL</sub> = 12 mA	1,2,3		0.4	V
	Q <sub>H'</sub>					I <sub>OL</sub> = 8 mA		
Input clamp voltage		V <sub>IC</sub>	V <sub>CC</sub> = 4.5 V, I <sub>IN</sub> = -18 mA		1, 2, 3		-1.5	V
High level input current	Q	I <sub>IH1</sub>	V <sub>CC</sub> = 5.5 V	V <sub>IN</sub> = 5.5 V	1, 2, 3		0.1	mA
	Q <sub>H'</sub>			V <sub>IN</sub> = 7.0 V			0.1	
				V <sub>IN</sub> = 2.7 V			20	
Low level input current	SRCK	I <sub>IL</sub>	V <sub>CC</sub> = 5.5 V, V <sub>IN</sub> = 0.4 V		1, 2, 3		-0.8	mA
	SERn, A - H						-0.4	
	Others						-0.2	
Output current	Q	I <sub>OS</sub>	V <sub>CC</sub> = 5.5 V, V <sub>OUT</sub> = 0.0 V <u>1</u> /		1, 2, 3	-30	-130	mA
	Q <sub>H'</sub>						-20	
Supply current		I <sub>CCH</sub>	V <sub>CC</sub> = 5.5 V All possible inputs grounded, All outputs open	Outputs high	1, 2, 3		68	mA
		I <sub>CCL</sub>		Outputs low			80	
		I <sub>CCZ</sub>		Outputs disabled			85	
Off-state output leakage current	Q	I <sub>OZH</sub>	V <sub>CC</sub> = 5.5 V, V <sub>IH</sub> = 2.0 V, V <sub>IL</sub> = 0.7 V	V <sub>OUT</sub> = 2.7 V	1, 2, 3		20	μA
		I <sub>OZL</sub>		V <sub>OUT</sub> = 0.4 V			-400	
Functional tests			See 4.3.1c		7, 8			

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C 4.5 V ≤ V <sub>CC</sub> ≤ 5.5 V unless otherwise specified	Group A subgroups	Limits		Unit
				Min	Max	
Propagation delay time from SRCK ↑ to Q <sub>H'</sub>	t <sub>PLH1</sub>	V <sub>CC</sub> = 5.0 V, C <sub>L</sub> = 30 pF, R <sub>L</sub> = 1 kΩ, See figure 3	9, 10, 11	1	24	ns
	t <sub>PHL1</sub>			1	33	
Propagation delay time from $\overline{\text{SRLOAD}}$ ↓ to Q <sub>H'</sub>	t <sub>PLH2</sub>		9, 10, 11	1	59	ns
	t <sub>PHL2</sub>			1	42	
Propagation delay time from RCK ↑ to Q <sub>H'</sub>	t <sub>PLH3</sub>	V <sub>CC</sub> = 5.0 V, $\overline{\text{SRLOAD}} = L$ C <sub>L</sub> = 30 pF, R <sub>L</sub> = 1 kΩ, See figure 3	9, 10, 11	1	68	ns
	t <sub>PHL3</sub>			1	51	
Propagation delay time from SRCK ↑ to Q	t <sub>PLH4</sub>	V <sub>CC</sub> = 5.0 V, C <sub>L</sub> = 45 pF, R <sub>L</sub> = 667 Ω, See figure 3	9, 10, 11	1	26	ns
	t <sub>PHL4</sub>			1	40	
Propagation delay time from $\overline{\text{SRLOAD}}$ ↓ to Q	t <sub>PLH5</sub>		9, 10, 11	1	68	ns
	t <sub>PHL5</sub>			1	56	
Propagation delay time from $\overline{\text{SRCLR}}$ ↓ to Q <sub>H'</sub>	t <sub>PHL6</sub>	V <sub>CC</sub> = 5.0 V, C <sub>L</sub> = 30 pF, R <sub>L</sub> = 1 kΩ, See figure 3	9, 10, 11	1	38	ns
Propagation delay time from $\overline{\text{SRCLR}}$ ↓ to Q	t <sub>PHL7</sub>	V <sub>CC</sub> = 5.0 V, C <sub>L</sub> = 45 pF, R <sub>L</sub> = 667 Ω, See figure 3	9, 10, 11	1	54	ns
Enable time from $\overline{\text{G}}$ ↓ to Q	t <sub>PZH</sub>	V <sub>CC</sub> = 5.0 V, C <sub>L</sub> = 5 pF, R <sub>L</sub> = 667 Ω, See figure 3	9, 10, 11		50	ns
	t <sub>PZL</sub>				61	
Disable time from $\overline{\text{G}}$ ↑ to Q	t <sub>PHZ</sub>		9, 10, 11		54	ns
	t <sub>PLZ</sub>				42	

1/ Not more than one output will be tested at one time and duration of the test condition shall not exceed 1 second.

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Device type 01	
Case outlines R, S, and 2	
Terminal number	Terminal symbol
1	A/Q <sub>A</sub>
2	B/Q <sub>B</sub>
3	C/Q <sub>C</sub>
4	D/Q <sub>D</sub>
5	E/Q <sub>E</sub>
6	F/Q <sub>F</sub>
7	G/Q <sub>G</sub>
8	H/Q <sub>H</sub>
9	$\overline{\text{SRLOAD}}$
10	GND
11	Q <sub>H</sub> '
12	$\overline{\text{SRCLR}}$
13	$\overline{\text{SRCK}}$
14	$\overline{\text{SRCKEN}}$
15	RCK
16	$\overline{\text{G}}$
17	SER1
18	SER0
19	DS
20	V <sub>CC</sub>

FIGURE 1. Terminal connections.

<b>STANDARD MICROCIRCUIT DRAWING</b> DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990	SIZE <b>A</b>		<b>5962-89756</b>
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Mode	Inputs									I/O ports								Output
	$\overline{G}$	$\overline{SRCLR}$	$\overline{SRLOAD}$	RCK	SRCK	$\overline{SRCKEN}$	DS	SER0	SER1	A/ QA	B/ QB	C/ QC	D/ QD	E/ QE	F/ QF	G/ QG	H/ QH	
High-impedance <sup>1/</sup>	H	X	X	X	X	X	X	X	X	Z	Z	Z	Z	Z	Z	Z	Z	X
Clear	L	L	H	X	X	X	X	X	X	L	L	L	L	L	L	L	L	L
Load <sup>2/</sup>	H	H	H	↑	X	H	X	X	X	QAo	QBo	QCo	QDo	QEO	QFo	QGo	QHo	QHo
	L	H	L	L	X	H	X	X	X	a	b	c	d	e	f	g	h	h
Shift	L	H	H	X	↑	L	L	L	X	L	QAn	QBn	QCn	QDn	QEn	QFn	QGn	QGn
	L	H	H	X	↑	L	L	H	X	H	QAn	QBn	QCn	QDn	QEn	QFn	QGn	QGn
	L	H	H	X	↑	L	H	X	L	L	QAn	QBn	QCn	QDn	QEn	QFn	QGn	QGn
	L	H	H	X	↑	L	H	X	H	H	QAn	QBn	QCn	QDn	QEn	QFn	QGn	QGn

<sup>1/</sup> When the eight input/output terminals are disabled to the high-impedance state sequential operation, loading, or clearing of the register is not affected.

<sup>2/</sup> a...h = the level of the steady state input at inputs A through H, respectively. These data are loaded into the storage register with the rising edge of the RCK pulse while the shift register outputs are isolated from the input/output terminals. Data is then loaded from the storage register into the shift register with  $\overline{SRLOAD}$  low.

QAo...QHo = The level of QA...QH before the indicated steady-state conditions were established.

QAn...QHn = The level of QA...QH before the most recent active transition indicated by ↑.

FIGURE 2. Truth table.

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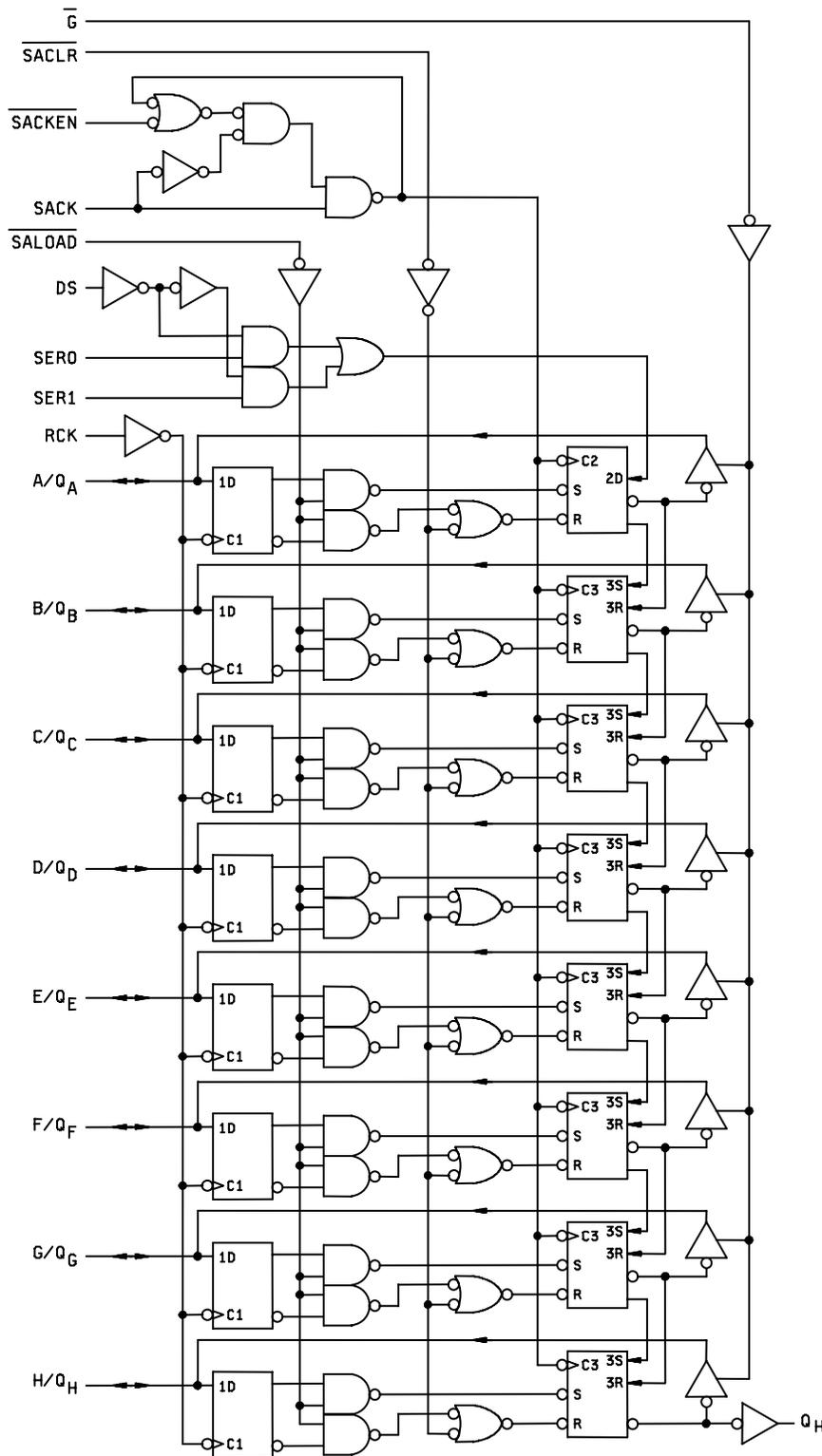
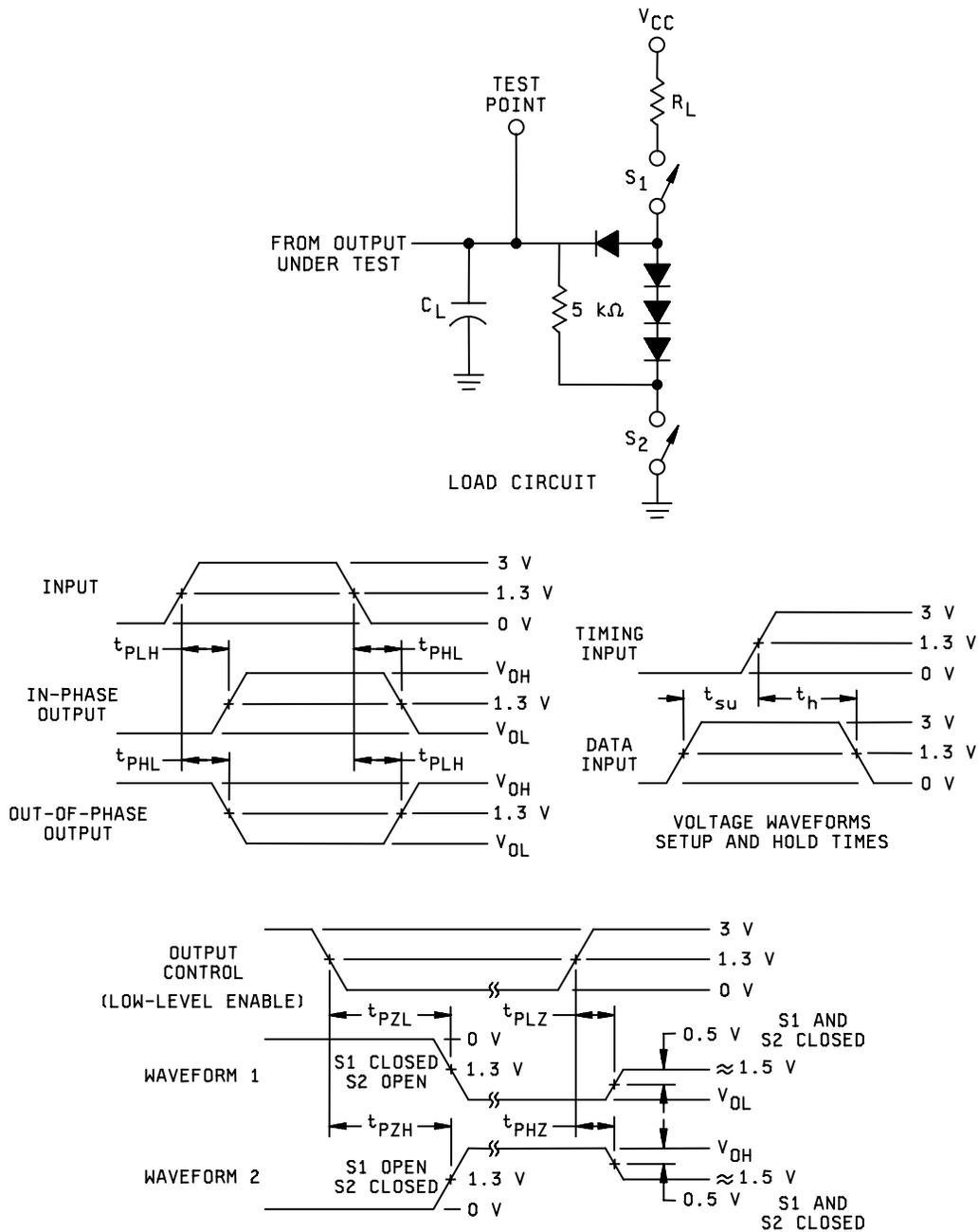


FIGURE 3. Logic diagram.

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**NOTES:**

1. The pulse generator shall have the following characteristics:  $PRR \leq 1 \text{ MHz}$ ,  $Z_{OUT} = 50 \Omega$ ,  $t_r \leq 15 \text{ ns}$ ,  $t_f 6 \text{ ns}$ .
2.  $C_L$  includes scope probe, wiring, and stray capacitance without the package in the test fixture.
3. All diodes are 1N3064 or equivalent.
4. Switches S1 and S2 shall be set for enable and disable time tests as follows:  
 $t_{PZL}$ : S1 closed; S2 open  
 $t_{PZH}$ : S1 open; S2 closed

FIGURE 4. Test circuit and switching waveforms.

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4. VERIFICATION

4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.

4.2 Screening. Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. The following additional criteria shall apply:

- a. Burn-in test, method 1015 of MIL-STD-883.
  - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring 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.
  - (2)  $T_A = +125^\circ\text{C}$ , minimum.
- b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.

TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)
Interim electrical parameters (method 5004)	---
Final electrical test parameters (method 5004)	1*, 2, 3, 7, 8, 9, 10, 11**
Group A test requirements (method 5005)	1*, 2, 3, 7, 8, 9, 10, 11**
Groups C and D end-point electrical parameters (method 5005)	1, 2, 3

\* PDA applies to subgroup 1.

\*\* Subgroups 10 and 11, if not tested, shall be guaranteed to the specified limits in table I.

4.3 Quality conformance inspection. Quality conformance inspection shall be in accordance with method 5005 of MIL-STD-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.

4.3.1 Group A inspection.

- a. Tests shall be as specified in table II herein.
- b. Subgroups 4, 5, and 6 in table I, method 5005 of MIL-STD-883 shall be omitted.
- c. Subgroups 7 and 8 shall include verification of the truth table.

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4.3.2 Groups C and D inspections.

- a. End-point electrical parameters shall be as specified in table II herein.
- b. Steady-state life test conditions, method 1005 of MIL-STD-883.
  - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring 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.
  - (2)  $T_A = +125^{\circ}\text{C}$ , minimum.
  - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38535, appendix A.

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.

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

6.3 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.

6.4 Record of users. Military and industrial users shall inform Defense Supply Center Columbus (DSCC) when a system application requires configuration control and the applicable SMD. DSCC 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 microelectronics devices (FSC 5962) should contact DSCC-VA, telephone (614) 692-0544.

6.5 Comments. Comments on this drawing should be directed to DSCC-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-0547.

6.6 Approved sources of supply. Approved sources of supply are listed in MIL-HDBK-103. The vendors listed in MIL-HDBK-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DSCC-VA.

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 07-11-20

Approved sources of supply for SMD 5962-89756 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 DSCC-VA. This information bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535. DSCC maintains an online database of all current sources of supply at <http://www.dscclia.mil/Programs/Smcr/>.

Standard microcircuit drawing PIN <u>1/</u>	Vendor CAGE number	Vendor similar PIN <u>2/</u>
5962-8975601RA	<u>3/</u>	SNJ54LS598J
5962-8975601SA	<u>3/</u>	SNJ54LS598W
5962-89756012A	<u>3/</u>	SNJ54LS598FK

- 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.
- 3/ Not available from an approved source of supply. The last known source of supply is listed below.

Vendor CAGE number

01295

Vendor name and address

Texas Instruments, Inc.  
Semiconductor Group  
8505 Forest Lane  
PO Box 660199  
Dallas, TX 75243  
POC 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.