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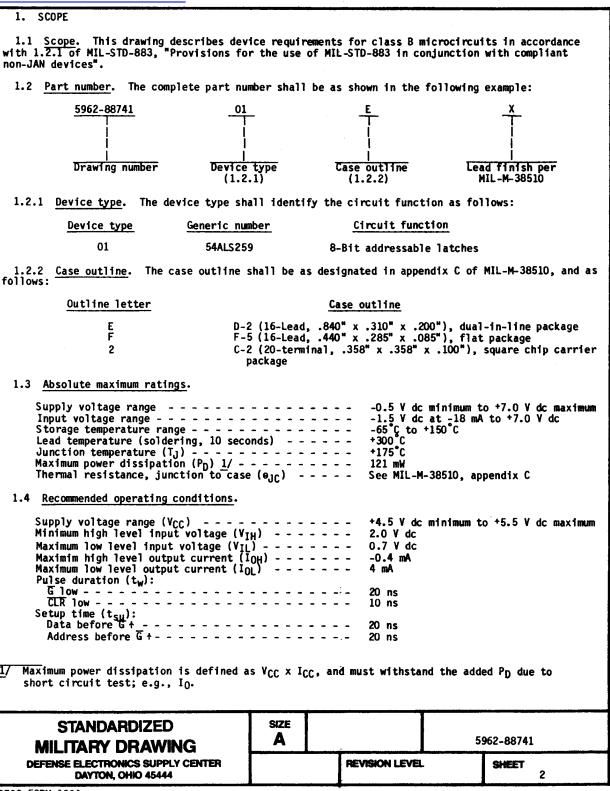
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PREDARED BY STANDARDIZED MILITARY DRAWING THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS PREDARED BY CHECKED BY APPROVED BY MICROCIRCUIT, LOW POWER SCH. LATCHES, MONO				DA F, D CHOT	IGIT TKY THIO	ΓAL, TTC SI	BII L, 3 LIC	POLA B-BI	R, <i>F</i> T AL	ADVA ODRE	NCED SSAE) BLE													
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DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.



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2. APPLICABLE DOCUMENTS

2.1 Government specification and standard. Unless otherwise specified, the following specification and standard, of the issue listed in that issue of the Department of Defense Index of Specifications and Standards specified in the solicitation, form a part of this drawing to the extent specified herein.

SPECIFICATION

MILITARY

MIL-M-38510

Microcircuits, General Specification for.

STANDARD

MILITARY

MIL-STD-883

Test Methods and Procedures for Microelectronics.

(Copies of the specification and standard required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

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 shall take precedence.

3. REQUIREMENTS

- 3.1 Item requirements. The individual item requirements shall be in accordance with 1.2.1 of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices" and as specified herein.
- 3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-M-38510 and herein.
 - 3.2.1 Terminal connections. The terminal connections shall be as specified on figure 1.
 - 3.2.2 Truth table. The truth table shall be as specified on figure 2.
- 3.2.3 Test circuit and switching waveforms. The test circuit and switching waveforms shall be as specified on figure 3.
 - 3.2.4 Case outlines. The case outlines shall be in accordance with 1.2.2 herein.
- 3.3 Electrical performance characteristics. Unless otherwise specified, the electrical performance characteristics are as specified in table I and apply over the full case operating temperature range.
- 3.4 Marking. Marking shall be in accordance with MIL-STD-883 (see 3.1 herein). The part shall be marked with the part number listed in 1.2 herein. In addition, the manufacturer's part number may also be marked as listed in 6.4 herein.

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TAE	BLE I. Ele	ectrical performance characteristi	cs.			
Test	Symbol	Conditions <u>1/</u> -55°C <u><</u> T _C <u><</u> +125°C	Group A	Lim	 Unit	
		-55°C < T _C < +125°C unless otherwise specified 	subgroups 		 Max 	
High level output voltage	V _{OH}	$V_{CC} = 4.5 \text{ V}, V_{IH} = 2.0 \text{ V}$ $I_{OH} = -0.4 \text{ mA}$ $V_{IL} = 0.7 \text{ V}$	1, 2, 3	2.5	 	 V
Low level output voltage	V _{OL}	V _{CC} = 4.5 V, V _{IH} = 2.0 V I _{OL} = 4 mA, V _{IL} = 0.7 V <u>2</u> /	1, 2, 3		0.4	V
Input clamp voltage	V _{IC}	V _{CC} = 4.5 V I _{IN} = -18 mA	1, 2, 3		-1.5) V
Low level input current	IIL	V _{CC} = 5.5 V V _{IN} = 0.4 V All unused inputs <u>></u> 4.5 V	1, 2, 3		-0.1 	l mA l
High level input current	I _{IH1}	V _{CC} = 5.5 V V _{IN} = 2.7 V All unused inputs = 0.0 V	1, 2, 3		20	μ Α
	I _{IH2}	 V _{CC} = 5.5 V V _{IN} = 7.0 V All unused inputs = 0.0 V	1, 2, 3		0.1	mA
Output current	Io	V _{CC} = 5.5 V <u>3/</u> V _{OUT} = 2.25 V	1, 2, 3	-30	 -112 	l mA l
Supply current	Icc	V _{CC} = 5.5 V	1, 2, 3		22	mA
Functional tests		See 4.3.1c <u>4</u> /	7, 8			

See footnotes at end of table.

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TABLE 1. Electrical performance characteristics - Continued. Unit Conditions $-55^{\circ}\text{C} < \text{T}_{\text{C}} < +125^{\circ}\text{C}$ unless otherwise specified Limits Symbol | |Group A Test subgroups Min Max $V_{CC} = 4.5 \text{ to } 5.5 \text{ V}$ $C_L = 50 \text{ pF}$ $R_I = 500\Omega$ 9,10,11 2 15 ns Propagation delay time, tPHL1 from clear to any Q 22 9,10,11 4 ns Propagation delay time, tPLH2 See figure 3 from data to any Q 2 15 tpHL2 9,10,11 4 26 ns Propagation delay time, t_{PLH3} from address to any Q 2 15 t_{PHL3} 9,10,11 4 22 ns Propagation delay time, t_{PLH4} from enable to any Q 2 16 tpHL4

- 1/ Unused inputs that do not directly control the pin under test must be > 2.5 V or < 0.4 V. No unused inputs shall exceed 5.5 V or go less than 0.0 V. No inputs shall be floated.
- 2/ All outputs must be tested. In the case where only one input at V $_{IL}$ maximum or V $_{IH}$ minimum produces the proper output state, the test must be performed with each input being selected as the V $_{IL}$ maximum or V $_{IH}$ minimum input.
- $\frac{3}{}$ The output conditions have been chosen to produce a current that closely approximates one half of the true short circuit output current, I $_{0S}$. Not more than one output will be tested at one time and the duration of the test shall not exceed 1 second.
- $\frac{4}{V_{OH}}$ Functional tests shall be conducted at input test conditions of GND \leq V_{IL} \leq V_{OL} and V_{OH} \leq V_{IH} \leq V_{CC}.
- $\underline{5}/$ Propagation delay limits are based on single output switching. Unused inputs = 3.5 V or $\underline{<}$ 0.3 V.

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Case outlines	E and F	2
Terminal number	Terminal	symbol
1 2 3 4 4 5 6 1 7 8 9 10 11 12 13 14 15 16 17 18 19 20	S0 S1 S2 Q0 Q1 Q2 Q3 GND Q4 Q5 Q6 Q7 D G CLR VCC	NC SO SI S2 Q0 NC Q1 Q2 Q3 GND NC Q4 Q5 Q6 Q7 NC Q6 Q7 Q7

NC = No connection

FIGURE 1. Terminal connections.

 Sele	ct in	puts	 Latch
52	\$1	50	addressed
 L	L	L	0
l L	L	Н	1
L	н	Ĺ	2
l L	Н	H] 3
H	L	L	4
l H	L	Н	5
H	Н	L	l 6
<u> </u>	Н	Н	<u> </u>

Inpu CLR	ts G	Output of addressed latch	Each Other Output	Function
Н	L	D	Qio	Addressable Latch Latch Memory 8-bit De- multiplexer Clear
Н	H	Q10	Qio	
L	H	D	L	

D = the level at the data input Q_{10} = the level of Qi (i = Q, 1 ... 7, as appropriate) before the

indicated steady-state input conditions were established.

H = high level voltage
L = low level voltage

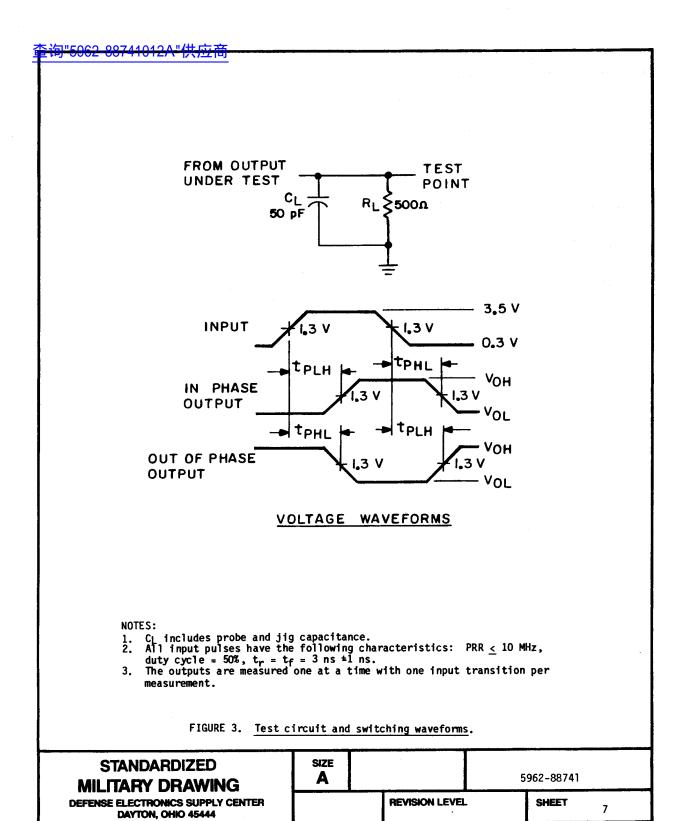
FIGURE 2. Truth table

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- 3.5 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 6.4. The certificate of compliance submitted to DESC-ECS prior to listing as an approved source of supply shall state that the manufacturer's product meets the requirements of MIL-STD-883 (see 3.1 herein) and the requirements herein.
- 3.6 Certificate of conformance. A certificate of conformance as required in MIL-STD-883 (see 3.1 herein) shall be provided with each lot of microcircuits delivered to this drawing.
- 3.7 Notification of change. Notification of change to DESC-ECS shall be required in accordance with MIL-SID-883 (see 3.1 herein).
- 3.8 Verification and review. DESC, DESC'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.
 - 4. QUALITY ASSURANCE PROVISIONS
- 4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with section 4 of MIL-M-38510 to the extent specified in MIL-STD-883 (see 3.1 herein).
- 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 or D using the circuit submitted with the certificate of compliance (see 3.5 herein).
 - (2) $T_A = +125$ °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.
- 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 verify the truth table as specified on figure 2.
 - 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 or D using the circuit submitted with the certificate of compliance (see 3.5 herein).
 - (2) $T_A = +125^{\circ}C$, minimum.
 - (3) Test duration: 1,000 hours except as permitted by method 1005 of MIL-STD-883.

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供应商TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups Subgroups Subgroups Subgroups
Interim electrical parameters (method 5004)	1 -
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
Group C and D end-point electrical parameters (method 5005)	1,2,3

^{*} PDA applies to subgroup 1.

- 5. PACKAGING
- 5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-M-38510.
 - 6. NOTES
- 6.1 <u>Intended use.</u> Microcircuits conforming to this drawing are intended for use when military specifications do not exist and qualified military devices that will perform the required function are not available for OEM application. When a military specification exists and the product covered by this drawing has been qualified for listing on QPL-38510, the device specified herein will be inactivated and will not be used for new design. The QPL-38510 product shall be the preferred item for all applications.
- 6.2 <u>Replaceability</u>. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.
- 6.3 Comments. Comments on this drawing should be directed to DESC-ECS, Dayton, Ohio 45444, or telephone 513-296-5375.

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6.4 Approved source of supply. An approved source of supply is listed herein. Additional sources will be added as they become available. The vendor listed herein has agreed to this drawing and a certificate of compliance (see 3.5 herein) has been submitted to DESC-ECS.

Military drawing part number	Vendor CAGE number	Yendor similar part number 1/
5962-8874101EX	01295	SNJ 54AL S259J
5962-8874101FX	01295	SNJ54AL\$259W
5962-88741012X	01295	SNJ54ALS259FK

1/ 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 P.O. Box 6448 Midland, TX 79711

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