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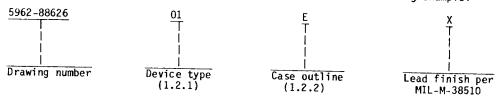
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1.1~Scope. This drawing describes device requirements for class B microcircuits in accordance with $1.\overline{2.1}$ of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices".

1.2 Part number. The complete part number shall be as shown in the following example:



1.2.1 Device type. The device type shall identify the circuit function as follows:

Device type	Generic number	Circuit function
01	54ALS258	Quadruple 2-line to 1-line data selectors/ multiplexers with 3-state outputs

1.2.2 <u>Case outlines</u>. The case outlines shall be as designated in appendix C of MIL-M-38510, and as follows:

	case outline
E	D-2 (16-lead, .840" x .310" x .200"), dual-in-line package
F	F-5 (16-lead, .440" x .285" x .085"), flat package
2	C-2 (20 terminal, .358" x .358" x .100"), square chip carrier package

Caco outline

1.3 Absolute maximum ratings.

Outline letter

1.4 Recommended operating conditions.

Supply voltage range (V_{CC}) Minimum high level input voltage (V_{IH})	+4.5 V dc minimum to +5.5 V dc maximum
Maximum low level input voltage (V _{TI}):	
10 = +125 C	0.7 V dc
T _C = -55°C	0.8 V dc
$T_{C}^{C} = +25^{\circ}C$	0.8 V dc
Case operating temperature range (T _C)	-55°C to +125°C

Maximum power dissipation is defined as $V_{CC} \times I_{CC}$, and must withstand the added P_D due to short circuit test; e.g., I_0 .

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2.1 Government specification, standard, and bulletin. Unless otherwise specified, the following specification, standard, and bulletin 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.

BULLETIN

MIL ITARY

MIL-BUL-103

- List of Standardized Military Drawing (SMD's).

(Copies of the specification, standard, and bulletin 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 <u>Design, construction, and physical dimensions</u>. 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 Logic diagram. The logic diagram shall be as specified on figure 3.
- 3.2.4 Test circuit and switching waveforms. The test circuit and switching waveforms shall be as specified on figure 4.
 - 3.2.5 Case outlines. The case outlines shall be in accordance with 1.2.2 herein.
- 3.3 Electrical performance characteristics. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and 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.

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Test	Symbo1	Condition	Group A	Limits		 Unit	
	 _	unless otherwise	subgroups 	Min	Max	! 	
High level output voltage	IV _{OH} I	V _{CC} = 4.5 V V _{IH} = 2.0 V	$I_{OH} = -0.4 \text{ mA}$	1, 2, 3	2.5	[V
		V _{IL} at +25°C = 0.8 V V _{IL} at -55°C = 0.8 V		1, 2, 3	2.4	[[T 1 1
Low level output voltage	VOL		V _{IL} = 0.7 V	2	 	1 0.4	l V
			V _{IL} = 0.8 V	1, 3		1 [<u> </u> _
Input clamp voltage	\v_IC	$V_{CC} = 4.5 \text{ V}, I_{IN} = -18 \text{ m}$	1, 2, 3		 -1.5	 V	
Low level input current	I IL	$V_{CC} = 5.5 \text{ V}, V_{IN} = 0.4 \text{ V}$ unused inputs are ≥ 4.5	1, 2, 3		 -0.1 	l mA	
Off-state output current	IOZH	V _{CC} = 5.5 V, V _{OUT} = 2.7	1, 2, 3		i 20	 μΑ	
	IozL	$V_{CC} = 5.5 \text{ V}, V_{OUT} = 0.4$	V			 -20 	
High level input current	I IH1	$V_{CC} = 5.5 \text{ V}, V_{IN} = 2.7 \text{ V}$ unused inputs = 0.0 V	1	1, 2, 3		20 	μ Α
	II _{IH2}	$V_{CC} = 5.5 \text{ V}, V_{IN} = 7.0 \text{ V}$ unused inputs = 0.0 V				0.1	mA
Output current	110	$ V_{CC} = 5.5 \text{ V} = \frac{3}{4}, V_{OUT} =$	2.25 V	1, 2, 3	-30	-112	mA
Supply current	ICCH	 V _{CC} = 5.5 V a inputs > 4.5 V		1, 2, 3		4	mА
	ICCL			1, 2, 3		11	mA
	ICCZ			1, 2, 3		l 13	mA
Functional tests		See 4.3.1c 4/		7,8	1		
e footnotes at end o	f table.	······································		<u> </u>			<u> </u>

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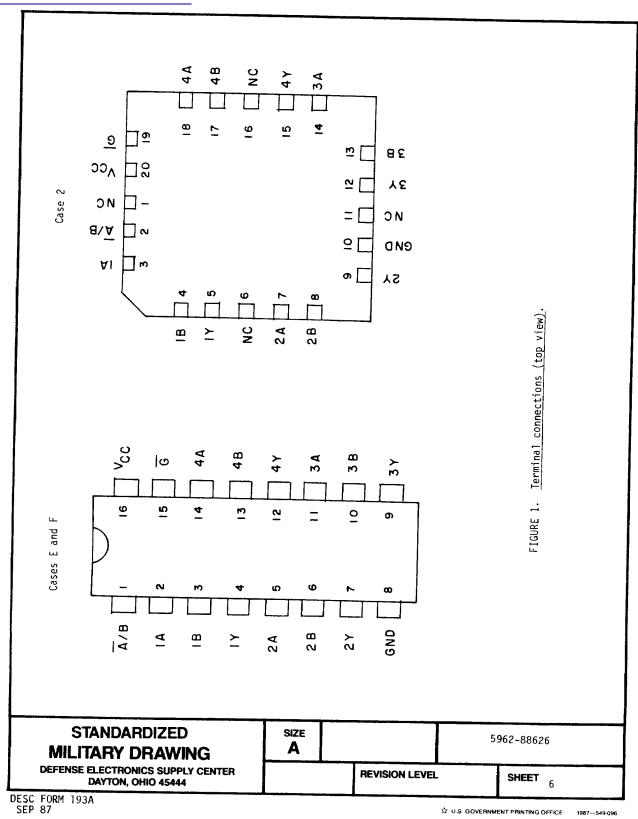
查询"5962-886260"A	BA"供应	trical performance characteristics - Co	ntinued.			
Test	Symbol	Conditions -55°C < T _C < +125°C	Group A	Lim	Unit	
	 	unless otherwise specfied 1/	subgroups 		Max	<u> </u>
Propagation delay time from A, B	t _{PLH1}		9, 10, 11	2	l l 10	l ns
to any Y	t _{PHL1}	R ₁ = 500Ω R ₂ = 500Ω		2	 9 	
Propagation delay time from A/B	t _{PLH2}	 	9, 10, 11	5	i 20	l l ns
to any Y	tPHL2	 		. 8	 25 	
Enable time to high level from G to	t _{PZH}		9, 10, 11	5	18	l Ins
any Y	tpZL	 	 	5	18	
Disable time from G to any Y	l t _{PHZ} 	 	9, 10, 11	2	10	l ns
	tpLZ	 		3	25	

- 1/ Unused inputs that do not directly control the pin under test must be put at \geq 2.5 V or \leq 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 lest must be performed with each input being selected as the V_{IL} maximum or V_{IH} minimum input.
- $\overline{3/}$ The output conditions have been chosen to produce a current that closely approximates one-half of the true short circuit output current, I_{OS} . Not more than one output will be tested at one time and the duration of the test condition shall not exceed one second.
- 4/ 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}.
- $\frac{5}{2}$ Propagation delay limits are based on single output switching. Unused inputs = 3.5 V or $\frac{5}{2}$ 0.3 V.

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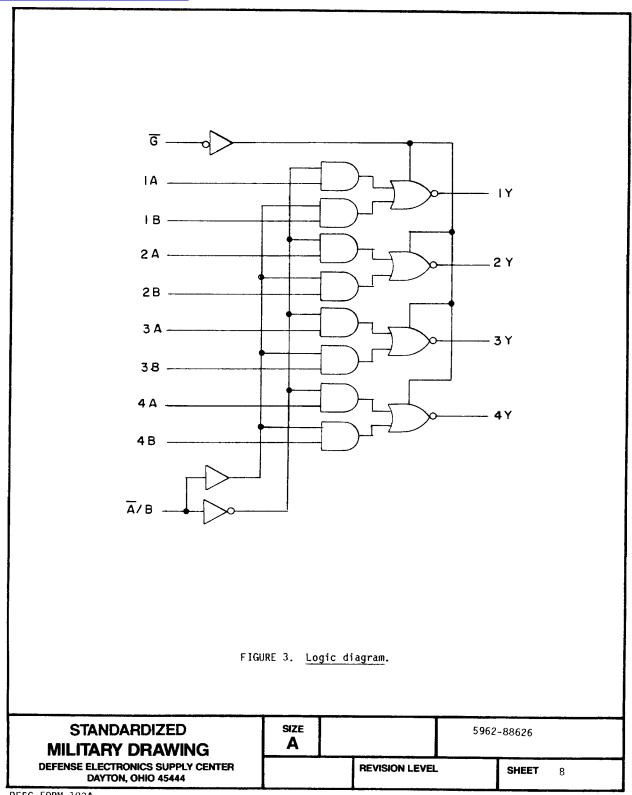
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Output Inputs Output | control | G Υ Data Select T/B xixi Н χ Z L | X | Н ĺΧ Н XIL Н Н X | H L H = High voltage level L = Low voltage level X = Irrelevant FIGURE 2. Truth table. **STANDARDIZED** SIZE Α 5962-88626 **MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER REVISION LEVEL** SHEET DAYTON, OHIO 45444 7

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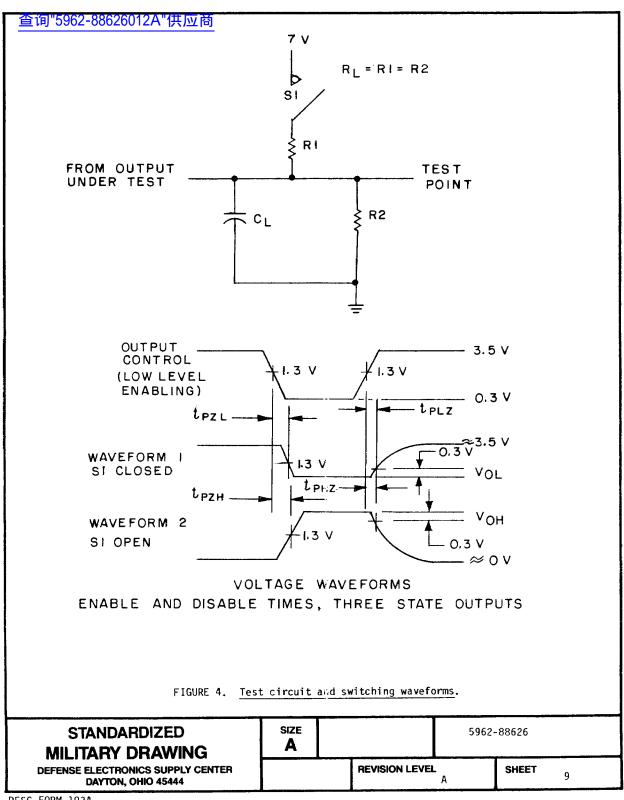
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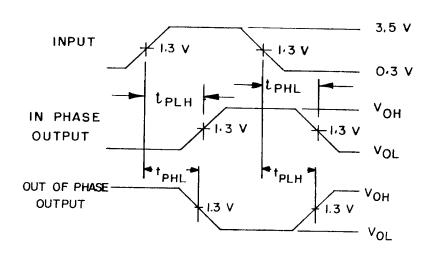
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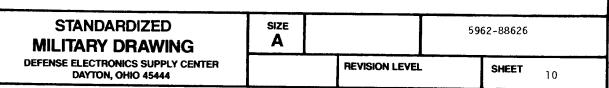
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NOTES:

- C_L includes probe and jig capacitance. All input pulses have the following characteristics: PRR \leq 10 MHz, duty
- cycle = 50%, t_r = t_f = 3 ns ± 1 ns. The outputs are measured one at a time with one input transition per measurement.
- Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
- 5. When measuring propagation delay items of 3-state outputs switch S1 is open.

FIGURE 4. Test circuit and switching waveforms - Continued.



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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 MIL-BUL-103 (see 6.6 herein).

- 3.6 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-BUL-103 (see 6.6 herein). The certificate of compliance submitted to DESC-ECC prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-STD-883 (see 3.1 herein) and the requirements herein.
- 3.7 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.
- 3.8 Notification of change. Notification of change to DESC-ECC shall be required in accordance with MIL-STD-883 (see 3.1 herein).
- 3.9 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 <u>Screening</u>. 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 3.6 herein).
 - (2) $T_{\Delta} = +125^{\circ}C$, 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-SID-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 5095 of MIL-STD-883 shall be omitted.
 - c. Subgroups 7 and 8 tests shall verify the truth table as specified on figure 2 herein.

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TABLE II. Electrical test requirements.	TABLE	II.	Electrical	test	requirements.
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 MIL-STD-883 test requirements 	Subgroups (per method 5005, table I)
l Interim electrical parameters (method 5004)	
 Final electrical test parameters (method 5004)	 1*,2,3,7,8,9,
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.

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.
 - Test condition A or D using the circuit submitted with the certificate of compliance (see 3.6 herein).
 - (2) $T_A = +125^{\circ}C$, 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-M-38510.

NOTES

- 6.1 Intended use. 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 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 in accordance with MIL-STD-481 using DD Form 1693, Engineering Change Proposal (Short Form).

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ELP Record 86 Coors AMAN AND and industrial users shall inform Defense Electronics Supply Center when a system application requires configuration control and the applicable SMD. DESC 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 DESC-ECC, telephone (513) 296-6022.

- 6.5 Comments. Comments on this drawing should be directed to DESC-ECC, Dayton, Ohio 45444, or telephone (513) 296-8525.
- 6.6 Approved sources of supply. Approved sources of supply are listed in MIL-BUL-103. Additional sources will be added to MIL-BUL-103 as they become available. The vendors listed in MIL-BUL-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DESC-ECC. The approved sources listed below are for information purposes only and are current only to the date of the last action of this document.

Military drawing part number	Vendor CAGE number	Vendor similar part number <u>1</u> /
5962-8862601EX	01295 18324 27014	SNJ 54AL S258J 54AL S258/BEA 54AL S258J/883
5962-8862601FX	01295 18324	SNJ54ALS258W 54ALS258/BFA
5962-88626012X	01295 18324	SNJ54ALS258FK 54ALS258/B2A

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	Vendor name and address
01295	Texas Instruments, Incorporated 135() N. Central Expressway P.O. Box 655303 Dalīas, TX 75265 Point of contact: I-20 at FM 1788 Midland, TX 79711-0448
18324	Signetics Corporation 4130 South Market Court Sacramento, CA 95834
27014	National Semiconductor 2900 Semiconductor Drive Santa Clara, CA 95052-8090 Point of contact: 333 Western Avenue South Portland, ME 04016

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