

REVISIONS

LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
A	Changes in accordance with NOR 5962-R192-92.	92-04-24	Monica L. Poelking
B	Update to reflect latest changes in format and requirements. Editorial changes throughout. - les	01-10-29	Raymond Monnin
C	Update drawing to current requirements. Editorial changes throughout. - gap	09-01-23	Robert M. Heber
D	Update to current MIL-PRF-38535 requirements. - rdc	16-08-05	Charles F. Saffle

CURRENT CAGE CODE IS 67268.

The original first sheet of this drawing has been replaced.



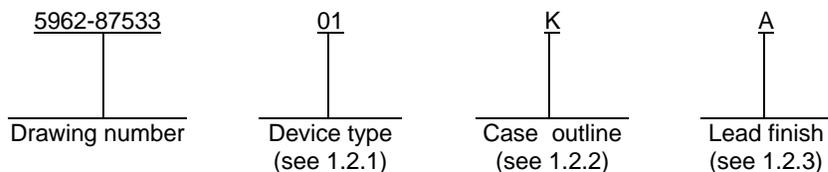
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REV STATUS OF SHEETS	REV SHEET	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
		1	2	3	4	5	6	7	8	9	10	11	12							

PMIC N/A	PREPARED BY Monica Grosel	<p align="center"><b>DLA LAND AND MARITIME</b>  <b>COLUMBUS, OHIO 43218-3990</b>  <a href="http://www.landandmaritime.dla.mil">http://www.landandmaritime.dla.mil</a></p> <p align="center">MICROCIRCUIT, DIGITAL, ADVANCED LOW POWER SCHOTTKY TTL, UNIVERSAL MULTIPLEXER, MONOLITHIC SILICON</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 D. A. DiCenzo																		
	APPROVED BY N. A. Hauck																		
	DRAWING APPROVAL DATE 87-02-20																		
	REVISION LEVEL D	SIZE A	CAGE CODE <b>14933</b>	<b>5962-87533</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	54ALS857	Hex, two-input universal multiplexer with 3-state outputs

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>
L	GDIP3-T24 or GDIP4-T24	24	Dual-in-line
K	GDFP2-F24 or GDFP3-F24	24	Flat package
3	CQCC1-N28	28	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 ( $V_{CC}$ ) .....	-0.5 V dc to +7.0 V dc
Input voltage range .....	-1.5 V dc at -18 mA to +7.0 V dc
Storage temperature range .....	-65°C to +150°C
Maximum power dissipation ( $P_D$ ) <sup>1/</sup> .....	198 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

1.4 Recommended operating conditions.

Supply voltage range ( $V_{CC}$ ) .....	+4.5 V dc to 5.5 V dc maximum
Minimum high level input voltage ( $V_{IH}$ ) .....	2.0 V
Maximum low level input voltage ( $V_{IL}$ ) .....	0.7 V
Normalized fanout (each output) <sup>2/</sup> .....	10 maximum at low logic level 20 maximum at high logic level
Case operating temperature range ( $T_C$ ) .....	-55°C to +125°C

<sup>1/</sup> Must withstand the added  $P_D$  due to short circuit test (e.g.  $I_o$ ).

<sup>2/</sup> Device will fanout in both high and low levels to the specified number of data inputs on the same device type as that being tested.

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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 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.

3.3 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.

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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 DLA Land and Maritime -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 DLA Land and Maritime -VA shall be required for any change that affects this drawing.

3.9 Verification and review. DLA Land and Maritime, DLA Land and Maritime'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. 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<sub>A</sub> = +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.

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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C <u>1</u> / unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
High level output voltage	V <sub>OH</sub>	V <sub>CC</sub> = 4.5 V, I <sub>OH</sub> = -100 μA, V <sub>IN</sub> = 0.7 V or 2.0 V	1, 2, 3	01	2.4		V
Low level output voltage	V <sub>OL</sub>	V <sub>CC</sub> = 4.5 V, I <sub>OL</sub> = 12 mA, V <sub>IN</sub> = 0.7 V or 2.0 V	1, 2, 3	01		0.4	V
Input clamp voltage	V <sub>IC</sub>	V <sub>CC</sub> = 4.5 V, I <sub>IN</sub> = -18 mA, T <sub>C</sub> = 25°C	1, 2, 3	01		-1.5	V
Low level input current	I <sub>IL</sub>	V <sub>CC</sub> = 5.5 V, V <sub>IN</sub> = 0.4 V	1, 2, 3	01		-200	μA
High level input current	I <sub>IH1</sub>	V <sub>CC</sub> = 5.5 V, V <sub>IN</sub> = 2.7 V	1, 2, 3	01		60	μA
	I <sub>IH2</sub>	V <sub>CC</sub> = 5.5 V, V <sub>IN</sub> = 7.0 V	1, 2, 3	01		300	μA
Off-state output current, high level voltage applied	I <sub>OZH</sub>	V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 2.7 V	1, 2, 3	01		20	μA
Off-state output current, low level voltage applied	I <sub>OZL</sub>	V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 0.4 V	1, 2, 3	01		-20	μA
Output circuit <u>1</u> /	I <sub>O</sub>	V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 2.25 V	1, 2, 3	01	-15	-110	mA
Supply current outputs high	I <sub>CCH</sub>	V <sub>CC</sub> = 5.5 V, V <sub>IN</sub> = 0.0 V or 4.5 V as applicable	1, 2, 3	01		24	mA
Supply current outputs low	I <sub>CCL</sub>	V <sub>CC</sub> = 5.5 V, V <sub>IN</sub> = 0.0 V or 4.5 V as applicable	1, 2, 3	01		33	mA
Supply current outputs disabled	I <sub>CCZ</sub>	V <sub>CC</sub> = 5.5 V	1, 2, 3	01		36	mA
Functional tests		See 4.3.1c	7	01			
Propagation delay time, A to output	t <sub>PLH1</sub>	V <sub>CC</sub> = 5.0 V, C <sub>L</sub> = 50 pF ±10, R <sub>L</sub> = R <sub>1</sub> = 500 Ω	9, 10, 11	01		35	ns
	t <sub>PHL1</sub>		9, 10, 11	01		35	ns

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 <u>1</u> / unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Propagation delay time, B to output	t <sub>PLH2</sub>	V <sub>CC</sub> = 5.0 V, C <sub>L</sub> = 50 pF ±10%, R <sub>L</sub> = R <sub>1</sub> = 500 Ω	9, 10, 11	01		35	ns
	t <sub>PHL2</sub>					35	
Propagation delay time, S0 to output	t <sub>PLH3</sub>		9, 10, 11	01		37	ns
	t <sub>PHL3</sub>					37	
Propagation delay time, S1 to output	t <sub>PLH4</sub>		9, 10, 11	01		37	ns
	t <sub>PHL4</sub>					37	
Propagation delay time, COMP to output	t <sub>PLH5</sub>		9, 10, 11	01		26	ns
	t <sub>PHL5</sub>					26	
Propagation delay time, from A to OPER = 0	t <sub>PLH6</sub>		9, 10, 11	01		45	ns
	t <sub>PHL6</sub>					45	
Propagation delay time, from B to OPER = 0	t <sub>PLH7</sub>		9, 10, 11	01		45	ns
	t <sub>PHL7</sub>					45	
Propagation delay time, from S0 to OPER = 0	t <sub>PLH8</sub>		9, 10, 11	01		32	ns
	t <sub>PHL8</sub>					32	
Propagation delay time, from S1 to OPER = 0	t <sub>PLH9</sub>		9, 10, 11	01		32	ns
	t <sub>PHL9</sub>					32	

See footnote 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 <u>1/</u> unless otherwise specified	Group A subgroups	Device type <sup>e</sup>	Limits		Unit
					Min	Max	
Enable time from S0 to output	t <sub>PZH1</sub>	V <sub>CC</sub> = 5.0 V, C <sub>L</sub> = 50 pF ±10%, R <sub>L</sub> = R <sub>1</sub> = 500 Ω	9, 10, 11	01		38	ns
	t <sub>PZL1</sub>		9, 10, 11	01		38	ns
Enable time from S1 to output	t <sub>PZH2</sub>		9, 10, 11	01		38	ns
	t <sub>PZL2</sub>		9, 10, 11	01		38	ns
Enable time from S1 to OPER = 0	t <sub>PZH3</sub>		9, 10, 11	01		28	ns
	t <sub>PZL3</sub>		9, 10, 11	01		28	ns
Enable time from COMP to output	t <sub>PZL4</sub>		9, 10, 11	01		37	ns
Enable time from S0 to OPER = 0	t <sub>PZL5</sub>		9, 10, 11	01		29	ns
Enable time from COMP to OPER = 0	t <sub>PZL6</sub>		9, 10, 11	01		43	ns
Disable time from S0 to output	t <sub>PHZ1</sub>		9, 10, 11	01		43	ns
	t <sub>PLZ1</sub>		9, 10, 11	01		43	ns
Disable time from S1 to output	t <sub>PHZ2</sub>		9, 10, 11	01		43	ns
	t <sub>PLZ2</sub>		9, 10, 11	01		43	ns
Disable time from S1 to OPER = 0	t <sub>PHZ3</sub>		9, 10, 11	01		37	ns
	t <sub>PLZ3</sub>		9, 10, 11	01		37	ns
Disable time from COMP to output	t <sub>PLZ4</sub>		9, 10, 11	01		45	ns
Disable time from S0 to OPER = 0	t <sub>PLZ5</sub>		9, 10, 11	01		42	ns
Disable time from COMP to OPER = 0	t <sub>PLZ6</sub>		9, 10, 11	01		36	ns

1/ The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current, I<sub>o</sub>.

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Case outlines	K and L	3
Terminal number	Terminal symbol	Terminal symbol
1	S0	NC
2	1A	S0
3	1B	1A
4	1Y	1B
5	2A	1Y
6	2B	2A
7	2Y	2B
8	3A	NC
9	3B	2Y
10	3Y	3A
11	OPER = 0	3B
12	GND	3Y
13	COMP	OPER = 0
14	4Y	GND
15	4B	NC
16	4A	COMP
17	5Y	4Y
18	5B	4B
19	5A	4A
20	6Y	5Y
21	6B	5B
22	6A	NC
23	S1	5A
24	V <sub>cc</sub>	6Y
25		6B
26		6A
27		S1
28		V <sub>cc</sub>

FIGURE 1. Terminal connections.

<b>STANDARD MICROCIRCUIT DRAWING</b> DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990	SIZE <b>A</b>		<b>5962-87533</b>
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COMP	S1	S0	A	B	Y	OPER = 0
L	L	L	L	L	L	H
L	L	L	L	H	L	H
L	L	L	H	L	H	L
L	L	L	H	H	H	L
L	L	H	L	L	L	H
L	L	H	L	H	H	L
L	L	H	H	L	L	H
L	L	H	H	H	H	L
L	H	L	L	L	L	Z
L	H	L	L	H	L	Z
L	H	L	H	L	L	Z
L	H	L	H	H	H	Z
L	H	H	X	X	L	L
L	H	H	X	X	L	L
L	H	H	X	X	L	L
L	H	H	X	X	L	L
H	L	L	L	L	H	H
H	L	L	L	H	H	H
H	L	L	H	L	L	L
H	L	L	H	H	L	L
H	L	H	L	L	H	H
H	L	H	L	H	L	L
H	L	H	H	L	H	H
H	L	H	H	H	L	L
H	H	L	L	L	H	Z
H	H	L	L	H	H	Z
H	H	L	H	L	H	Z
H	H	L	H	H	L	Z
H	H	H	X	X	Z	Z
H	H	H	X	X	Z	Z
H	H	H	X	X	Z	Z
H	H	H	X	X	Z	Z

H = High level  
L = Low level  
X = Irrelevant  
Z = High impedance state

FIGURE 2. Truth table.

<b>STANDARD  MICROCIRCUIT DRAWING</b> DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990	SIZE <b>A</b>		<b>5962-87533</b>
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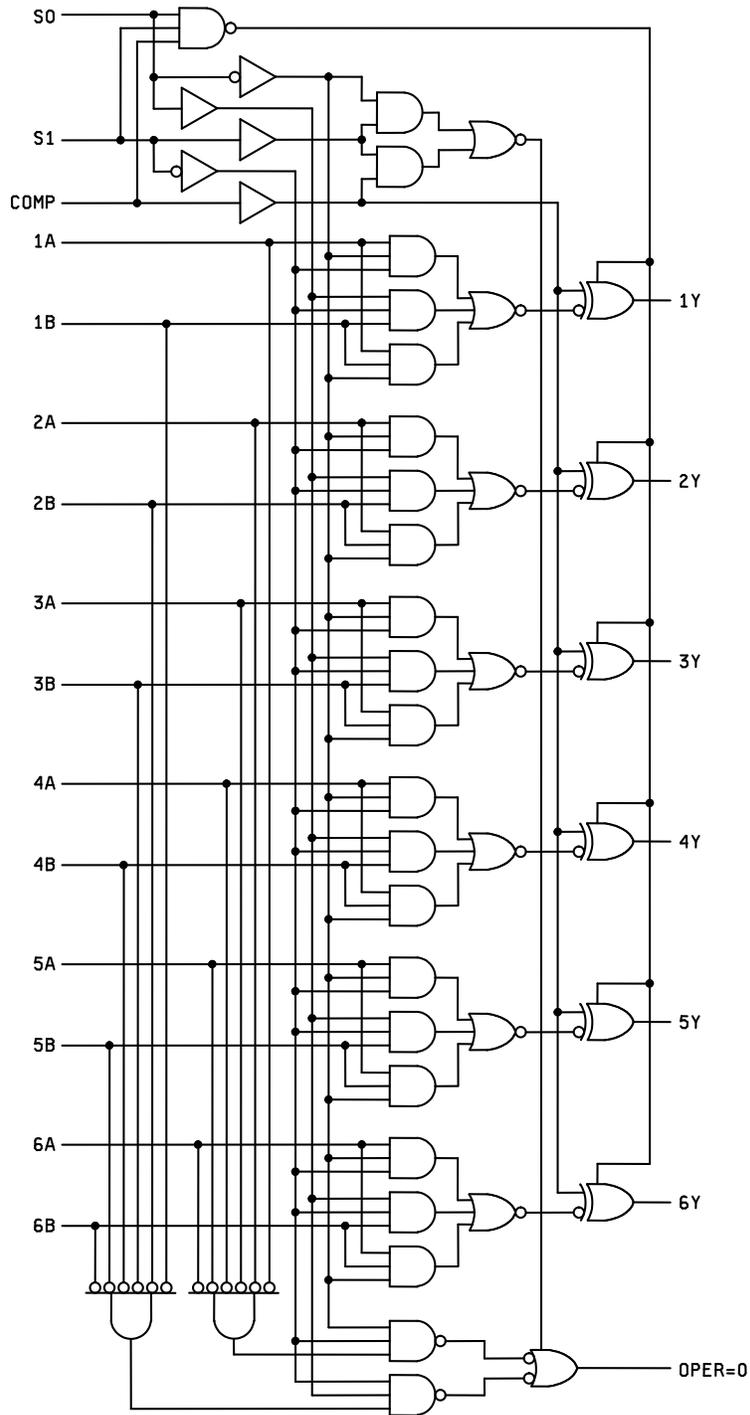


FIGURE 3. Logic diagram.

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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, 9
Group A test requirements (method 5005)	1, 2, 3, 7, 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 limits specified 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, 6, and 8 in table I, method 5005 of MIL-STD-883 shall be omitted.
- c. Subgroup 7 shall include verification of the truth table.

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.

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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 DLA Land and Maritime when a system application requires configuration control and the applicable SMD 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 microelectronics devices (FSC 5962) should contact DLA Land and Maritime-VA, telephone (614) 692-8108.

6.5 Comments. Comments on this drawing should be directed to DLA Land and Maritime-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-0540.

6.6 Approved sources of supply. Approved sources of supply are listed in MIL-HDBK-103 and QML-38535. The vendors listed in MIL-HDBK-103 and QML-38535 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DLA Land and Maritime-VA.

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 16-08-05

Approved sources of supply for SMD 5962-87533 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 <https://landandmaritimeapps.dla.mil/Programs/Smcr/>.

Standard microcircuit drawing PIN <u>1/</u>	Vendor CAGE number	Vendor similar PIN <u>2/</u>	Reference military specification part number
5962-8753301KA	<u>3/</u>	SNJ54ALS857W	M38510/37901BKA
5962-87533013A	01295	SNJ54ALS857FK	M38510/37901B3A
5962-8753301LA	01295	SNJ54ALS857J	M38510/37901BLA

- 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.

Vendor CAGE  
number

Vendor name  
and address

01295

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