								R	REVIS	ONS										
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D	Add	devic	e type	02.										01-1	0-24		Ra	aymon	d Mon	nin
E	4.2. exc	Adde eption	lass E d para s. Add iit Drav	graph led the	4.3.6 class	in sect E part	ion 4 t t numb	for listi	ing the	class	E	and	02-05-01			Ra	aymon	d Mon	nin	
F	Add	devic	e type	03.									03-08-22			Ra	Raymond Monnin		nin	
G	con	Table I; For the Input-output insulation current test (I <sub>I-O</sub> ), under the condition block changed "RH $\leq$ 45 %" to "RH $\leq$ 65 %". Editorial changes throughoutsld						9	04-09-16			Raymond Monnin								
н	with Inpu	Table I; Changed the symbols in the conditions block for the Output withstand voltage, Output on resistance, Output leakage current, Input forward voltage, Turn-on time, and Turn-off time tests. Editorial changes throughoutsld							04-12-09			Ra	Raymond Monnin							
J			otnote t						l para	graph 4	4.3.6 fo	or		05-0	8-09		Ra	aymon	d Mon	nin
К	Upc	lated o	drawing	) paraç	graphs	sld								12-0	3-09		Charles F. Saffle			
L													15-12-01			Charles F. Saffle				
Μ	Added device type 04sld       15-12-01       Charles F. Saff         Figure 1: Corrected dimensions "D" and "S" for case outlines X and Y.       17-08-03       Charles F. Saff         Editorial changes throughoutsld       Charles F. Saff       Charles F. Saff						fle													
									1	1		I						   		
REV SHEET	M 15																			
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OF SHEETS				SHE	ET		1	2	3	4	5	6	7	8	9	10	11	12	13	14
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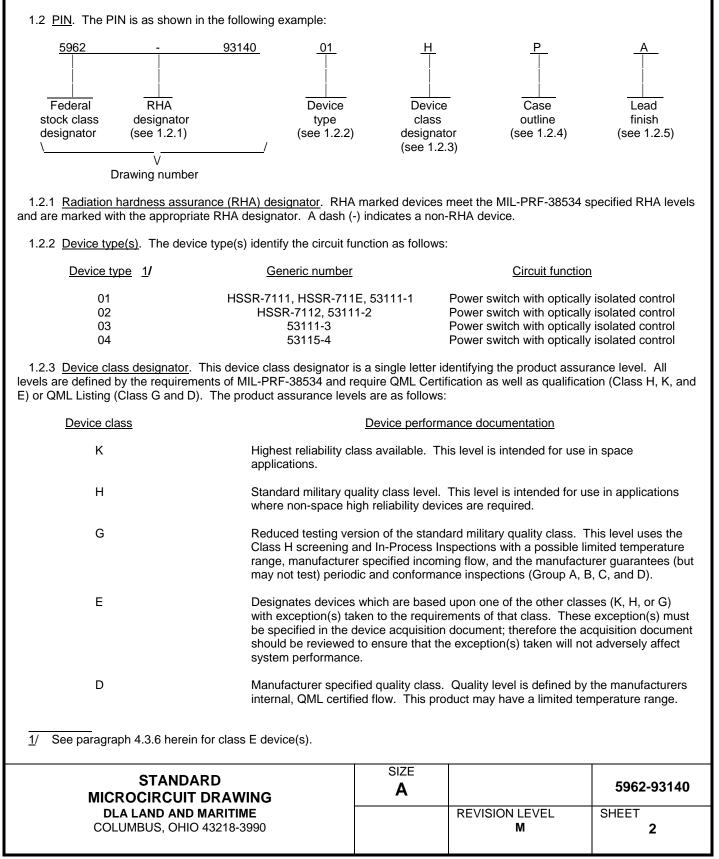
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DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited.

# 1. SCOPE

1.1 <u>Scope</u>. This drawing documents five product assurance classes as defined in paragraph 1.2.3 and MIL-PRF-38534. A choice of case outlines and lead finishes which are available and are reflected in the Part or Identifying Number (PIN). When available, a choice of radiation hardness assurance levels are reflected in the PIN.



1.2.4 Case outline(s). The case	outline(s) are as designate	ed in MIL-STD-1835	and as follows:	
Outline letter	Descriptive designator	<u>Terminals</u>	Package style	<u>1</u>
P X Y Z	CDIP2-T8 See figure 1 See figure 1 See figure 1	8 8 8 8	Dual-in-line Dual-in-line Dual-in-line Dual-in-line	
1.2.5 Lead finish. The lead finis	h is as specified in MIL-PR	F-38534.		
1.3 Absolute maximum ratings.	<u>1</u> /			
Device type 04 Io (DC load only, connection Device types 01-03 Device type 04 Single shot output current: IoPK surge (AC or DC loads, Device types 01-03 Device type 04 Device types 01-03 Device type 04 Device type 04 Output voltage: Vo (AC or DC loads, connect Device types 01-03 Device type 04 Device type 04 Device type 04	FPK) surge) ion A): B): connection A, pulse width < nnection B, pulse width <10 tion A): n B): Γc)case (θJc) 10 seconds)	<10 ms): ) ms):	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	
Device type 01 Device types 02, 03, and 04			5 mA to 20 mA	
Input voltage range (V <sub>FON</sub> ) Ambient operating temperatur			0 to 0.6 V	
<ul> <li><u>1</u>/ Stresses above the absolute maximum levels may degrade</li> <li><u>2</u>/ Pulse width &lt; 100 ms, duty cy</li> <li><u>3</u>/ Pulse width &lt; 0.2 ms, duty cyc</li> <li><u>4</u>/ Output power dissipation (Po)</li> <li><u>5</u>/ Case operating temperature (<sup>1</sup></li> </ul>	performance and affect relice $< 50$ %. le $< 0.1$ %. is obtained when the part is	ability. s handling the maxir	num output current (Io).	operation at the
STANDA	RD	SIZE		5962-93140
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# 2. APPLICABLE DOCUMENTS

2.1 <u>Government specification, standards, and handbooks</u>. 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 SPECIFICATIONS

MIL-PRF-38534 - Hybrid Microcircuits, General Specification for.

## DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-883 - Test Method Standard Microcircuits. MIL-STD-1835 - Interface Standard for 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 <u>http://quicksearch.dla.mil/</u> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2 <u>Order of precedence</u>. 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 <u>Item requirements</u>. The individual item performance requirements for device classes D, E, G, H, and K shall be in accordance with MIL-PRF-38534. Compliance with MIL-PRF-38534 shall include the performance of all tests herein or as designated in the device manufacturer's Quality Management (QM) plan or as designated for the applicable device class. The manufacturer may eliminate, modify or optimize the tests and inspections herein, however the performance requirements as defined in MIL-PRF-38534 shall be met for the applicable device class. In addition, the modification in the QM plan shall not affect the form, fit, or function of the device for the applicable device class.

3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38534 and herein.

3.2.1 <u>Case outline(s)</u>. The case outline(s) shall be in accordance with 1.2.4 herein and figure 1.

3.2.2 Terminal connections. The terminal connections shall be as specified on figure 2.

3.2.3 Truth table(s). The truth table(s) shall be as specified on figure 3.

3.2.4 <u>Switching time test circuit and waveform(s)</u>. The switching time test circuit and waveform(s) shall be as specified on figure 4.

3.2.5 <u>Output transient rejection test circuit and waveform(s)</u>. The output transient rejection test circuit and waveform(s) shall be as specified on figure 5.

3.2.6 <u>Input-output transient rejection test circuit and waveform(s)</u>. The input-output transient rejection test circuit and waveform(s) shall be as specified on figure 6.

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3.3 <u>Electrical performance characteristics</u>. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full specified operating temperature range.

3.4 <u>Electrical test requirements</u>. 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 <u>Marking of device(s)</u>. Marking of device(s) shall be in accordance with MIL-PRF-38534. The device shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's vendor similar PIN may also be marked.

3.6 <u>Data</u>. In addition to the general performance requirements of MIL-PRF-38534, the manufacturer of the device described herein shall maintain the electrical test data (variables format) from the initial quality conformance inspection group A lot sample, for each device type listed herein. Also, the data should include a summary of all parameters manually tested, and for those which, if any, are guaranteed. This data shall be maintained under document revision level control by the manufacturer and be made available to the preparing activity (DLA Land and Maritime -VA) upon request.

3.7 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to supply to this drawing. The certificate of compliance (original copy) submitted to DLA Land and Maritime -VA shall affirm that the manufacturer's product meets the performance requirements of MIL-PRF-38534 and herein.

3.8 <u>Certificate of conformance</u>. A certificate of conformance as required in MIL-PRF-38534 shall be provided with each lot of microcircuits delivered to this drawing.

#### 4. VERIFICATION

4.1 <u>Sampling and inspection</u>. Sampling and inspection procedures shall be in accordance with MIL-PRF-38534 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 <u>Screening</u>. Screening shall be in accordance with MIL-PRF-38534. 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 either DLA Land and Maritime -VA or the acquiring activity upon request. Also, 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) TA shall be +125°C minimum. Classes H, G, and D shall be 160 hours minimum. Classes K and E shall be 320 hours minimum.
  - b. The class E device(s) shall meet the class K screening requirements of MIL-PRF-38534, except as specified herein.
  - c. 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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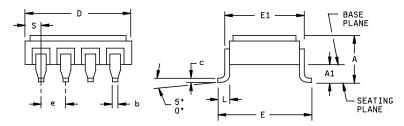
		TABLE I. Electrical per	formance chara	cteristic	<u>s</u> .			
Test	Symbol	$Conditions -55^{\circ}C \leq T_A \leq +125$	°C subgr	o A oups	Device type	Lir	nits	Unit
		unless otherwise spe	Cified			Min	Max	
Output withstand voltage	V <sub>O(OFF)</sub>	$V_F = 0.6 \text{ V}, I_O = 10 \ \mu\text{A}$	1,:	2,3	01-03	90		V
					04	480		
Output on resistance: Connection A	R <sub>ON</sub>	$I_F = 10 \text{ mA}, I_O = 800 \text{ mA}$ pulse duration $\leq 30 \text{ ms}$		2,3	01		1.0	Ω
		$I_F = 5 \text{ mA}, I_O = 800 \text{ mA},$ pulse duration $\leq 30 \text{ ms}$	<u>1</u> /		02,03		1.0	_
		$I_F = 5 \text{ mA}, I_0 = 100 \text{ mA},$ pulse duration $\leq 30 \text{ ms}$	<u>1</u> /		04		8.0	
Output on resistance: Connection B	Ron	$I_F = 10 \text{ mA}, I_0 = 1.6 \text{ A}, \\ \text{pulse duration} \leq 30 \text{ ms}$	<u>1/ 2/</u>	<u>2</u> / 1,2,3			0.25	
		$I_F = 5 \text{ mA}, I_O = 1.6 \text{ A}, \\ \text{pulse duration} \leq 30 \text{ ms}$	<u>1/2/</u>		02,03		0.25	
		$I_F = 5 \text{ mA}, I_0 = 200 \text{ mA},$ pulse duration $\leq 30 \text{ ms}$	<u>1/2/</u>		04		2.0	
Output leakage current	I <sub>O(OFF)</sub>	$V_F = 0.6 \text{ V}, V_O = 90 \text{ V}$	1,:	2,3	01-03		10	μA
		$V_F = 0.6 V, V_O = 480 V$			04		25	
Input forward voltage	VF	I <sub>F</sub> = 10 mA	1,:	2,3	01	1.0	1.7	V
		I <sub>F</sub> = 5 mA			02,03, 04	1.0	1.7	
Input reverse breakdown voltage	Vr	I <sub>r</sub> = 100 μA	1,:	2,3	All	5.0		V
Input-output insulation current <u>3/</u> 4/	li-o	$ \begin{array}{l} V_{I\text{-O}} = 1500 \ V \ dc, \ t = 5 \ s \\ RH \leq 65 \ \%, \ T_A = +25^\circ C \end{array} $	,	1	01-03		1.0	μA
			9		04		1.0	
Turn-on time	t <sub>ON</sub>	$I_F = 10 \text{ mA}, V_{DD} = 28 \text{ V}$ $I_O = 800 \text{ mA}, \text{ see figure}$		0,11	01		6.0	ms
		$I_{\text{F}} = 5 \text{ mA}, \text{ V}_{\text{DD}} = 28 \text{ V d}$ $I_{\text{O}} = 800 \text{ mA}, \text{ see figure}$			02,03		6.0	
		$I_F = 5 \text{ mA}, V_{DD} = 350 \text{ V}$ $I_O = 200 \text{ mA}, \text{ see figure}$			04		6.0	
See footnotes on nexst pa	ge.	·			·		<u>.</u>	
ST MICROCIF	ANDARD		SIZE A				5962-9	93140
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TABLE I. Electrical performance characteristics - Continued.							
Test			Group A subgroups	Device type	Limits		Unit
		unless otherwise specified	oubgroupe	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Min	Max	
Turn-off time	t <sub>OFF</sub>	$I_F = 10 \text{ mA}, V_{DD} = 28 \text{ V dc}, \\ I_O = 800 \text{ mA}, \text{ see figure 4}.$	9,10,11	01		0.25	ms
		$I_F = 5 \text{ mA}, V_{DD} = 28 \text{ V dc}, \\ I_O = 800 \text{ mA}, \text{ see figure 4}.$		02,03		0.25	
		$I_{\text{F}} = 5 \text{ mA}, \text{ V}_{\text{DD}} = 350 \text{ V dc}, \\ I_{\text{O}} = 200 \text{ mA}, \text{ see figure 4}.$		04		0.25	
Output transient rejection	dVo/dt		9	All	1000		V/µs
Input-output transient rejection	dV <sub>I-O</sub> /dt	$V_{DD} = 5 V dc, C_L = 15 pF,$ $V_{I-O(PEAK)} = 50 V, R_L = 20 k\Omega,$ $T_A = +25^{\circ}C$ , see figure 6.	9	All	500		V/µs

During the pulse  $R_{ON}$  measurement (I<sub>O</sub> duration < 30 ms),  $T_A$  and  $T_C$  are equal. Connection B is not actually tested but guaranteed by connection A during the output on resistance test. Device considered a two terminal device, pins 1 through 4 are shorted together and pins 5 through 8 are shorted together. This is a momentary withstand test, not an operating condition. <u>1/</u> <u>2/</u> <u>3/</u> <u>4</u>/

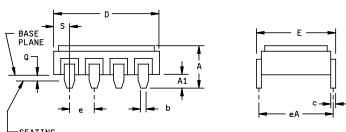
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Symbol	Millim	neters	Inc	hes
	Min	Max	Min	Max
А		4.57		.180
A1	1.40	1.65	.055	.065
b	0.41	0.51	.016	.020
С	0.18	0.33	.007	.013
D	9.66	10.29	.380	.405
е	2.29	2.79	.090	.110
E	9.65	9.91	.380	.390
E1		8.13		.320
L	1.07	1.32	.042	.052
S	1.02	1.52	.040	.060

## Case outline Y.



-SEATING PLANE

Symbol	Millim	neters	Inc	hes
	Min	Max	Min	Max
A		4.32		.170
A1	1.14	1.40	.045	.055
b	0.41	0.51	.016	.020
С	0.18	0.33	.007	.013
D	9.66	10.29	.380	.405
е	2.29	2.79	.090	.110
E		8.13		.320
eA	7.37	7.87	.290	.310
Q	0.51		.020	
S	1.02	1.52	.040	.060

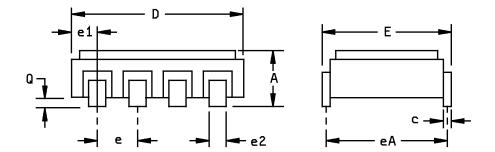
NOTES:

- 1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.
- 2. Pin 1 is indicated by the ESD triangle(s) marked on top of the package.

FIGURE 1. Case outlines.

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Case outline Z.



Symbol	Millim	neters	Inches		
	Min	Max	Min	Max	
A		3.56		.140	
С	0.18	0.33	.007	.013	
D	9.40	9.91	.370	.390	
е	2.29	2.79	.090	.110	
eA	7.37	7.87	.290	.310	
e1	0.89	1.27	.035	.050	
e2	0.89	1.14	.035	.045	
E		8.13		.320	
Q	0.51		.020		

# NOTES:

- 1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.
- 2. Pin 1 is indicated by the ESD triangle(s) marked on top of the package.

FIGURE 1. Case outlines - Continued.

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Device types	All	
Case outlines	P, X, Y, and Z	
Terminal number	Terminal	symbol
	Connection A	Connection B
	(AC or DC load)	(DC load only)
1	No connection	No connection
2	VF+	V <sub>F+</sub>
3	V <sub>F</sub> -	V <sub>F</sub> -
4	No connection	No connection
5	Vo-	Vo+
6	No connection	No connection
7	No connection	Vo-
8	V <sub>O+</sub>	V <sub>O+</sub>

NC = No connection.

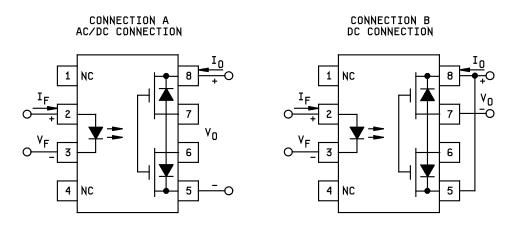
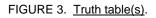
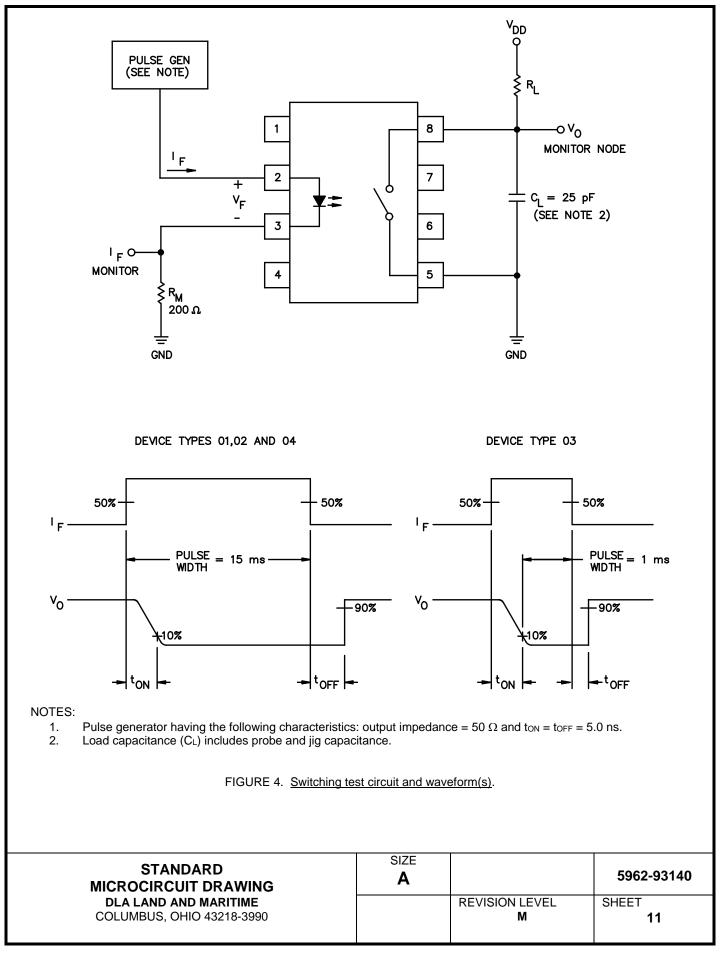


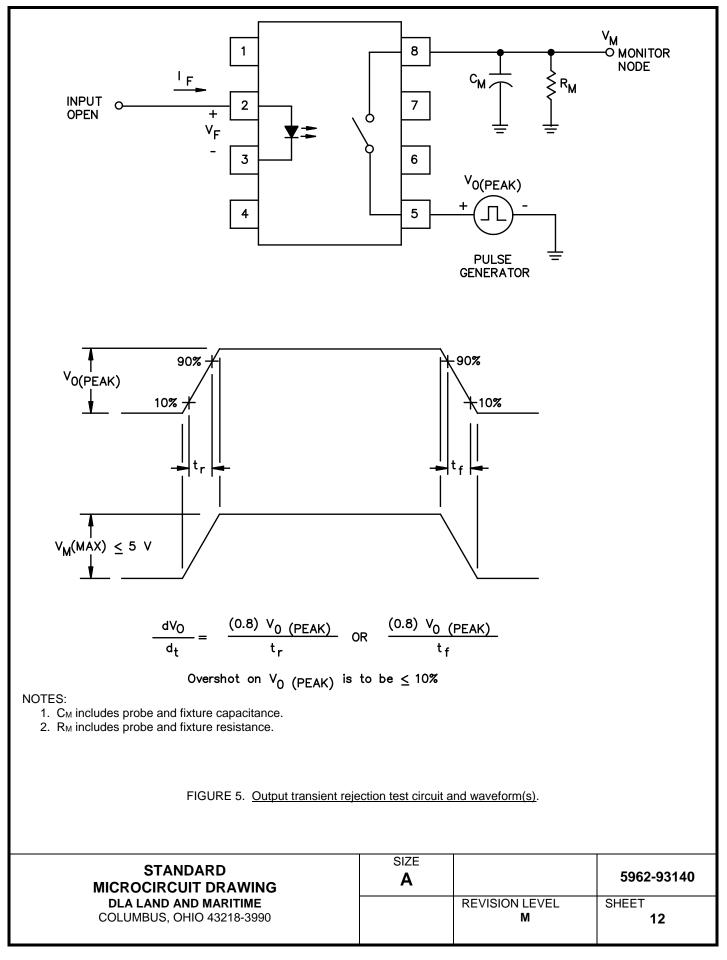
FIGURE 2. Terminal connections.

Input	Output
OFF	OFF
ON	ON



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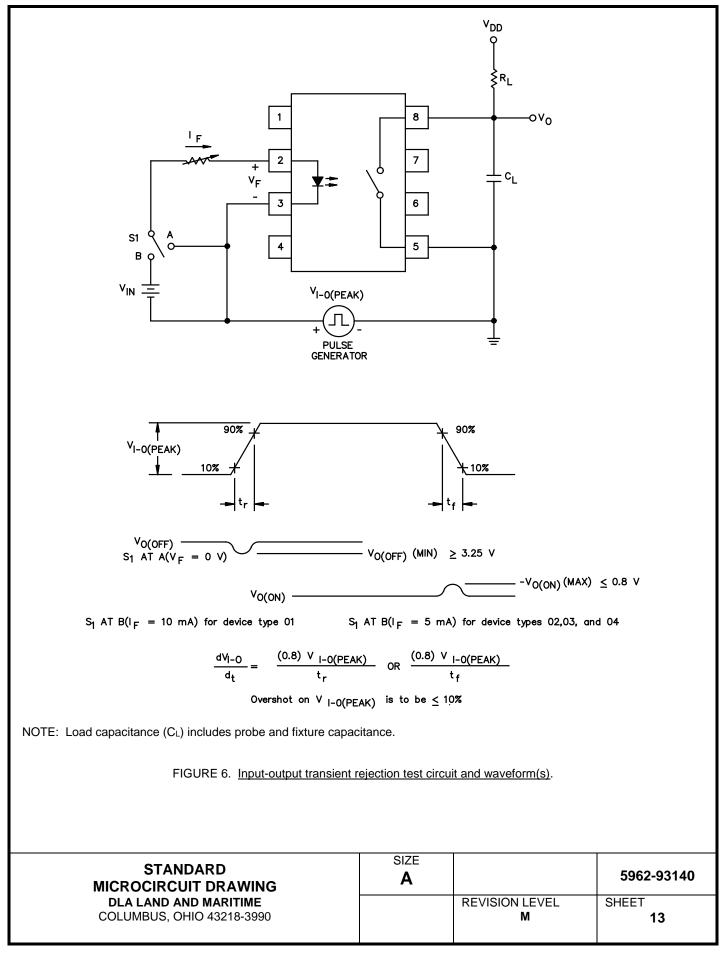


TABLE II.	Electrical test	requirements.
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MIL-PRF-38534 test requirements	Subgroups (in accordance with MIL-PRF-38534, group A test table)
Interim electrical parameters	1
Final electrical parameters	1*, 2,3, 9
Group A test requirements	1, 2, 3, 9, 10, 11
Group C end-point electrical parameters	1, 2, 3
End-point electrical parameters for radiation hardness assurance (RHA) devices	Not applicable

\* PDA applies to subgroup 1.

4.3 <u>Conformance and periodic inspections</u>. Conformance inspection (CI) and periodic inspection (PI) shall be in accordance with MIL-PRF-38534 and as specified herein.

4.3.1 Group A inspection (CI). Group A inspection shall be in accordance with MIL-PRF-38534 and as follows:

- a. Tests shall be as specified in table II herein.
- b. Subgroups 4, 5, 6, 7, and 8 shall be omitted.
- 4.3.2 Group B inspection (PI). Group B inspection shall be in accordance with MIL-PRF-38534.
- 4.3.3 Group C inspection (PI). Group C inspection shall be in accordance with MIL-PRF-38534 and as follows:
  - a. End-point electrical parameters shall be as specified in table II herein.
  - b. Steady-state life test, 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 either DLA Land and Maritime -VA or the acquiring activity upon request. Also, 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) TA as specified in accordance with table I of method 1005 of MIL-STD-883.
    - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.
- 4.3.4 Group D inspection (PI). Group D inspection shall be in accordance with MIL-PRF-38534.
- 4.3.5 Radiation Hardness Assurance (RHA) inspection. RHA inspection is not currently applicable to this drawing.

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- 4.3.6 Class E exceptions. The device(s) are based on class K requirements of MIL-PRF-38534 with the following exceptions:
  - a. Nondestructive Bond Pull, Test method 2023 of MIL-STD-883 in device screening is not required.
  - Particle Impact Noise Detection (PIND), Test method 2020 of MIL-STD-883 in device screening and group C testing is not required.
  - c. Die Shear Strength, Test method 2019 of MIL-STD-883 in group B testing is not required.
  - d. Internal Water Vapor Content, Test method 1018 of MIL-STD-883 in group C testing is not required.
  - e. Scanning Electron Microscope (SEM) inspections, Test method 2018 of MIL-STD-883 in element evaluation is not required.

"The user(s) of the class E device should review the exception(s) to insure the system performance will not be adversely affected."

5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38534.

6. NOTES

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

6.2 <u>Replaceability</u>. Microcircuits covered by this drawing will replace the same generic device covered by a contractorprepared specification or drawing.

6.3 <u>Configuration control of SMD's</u>. All proposed changes to existing SMD's will be coordinated as specified in MIL-PRF-38534.

6.4 <u>Record of users</u>. Military and industrial users should 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 microelectronic devices (FSC 5962) should contact DLA Land and Maritime-VA, telephone (614) 692-8108.

6.5 <u>Comments</u>. Comments on this drawing should be directed to DLA Land and Maritime-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-1081.

6.6 <u>Sources of supply</u>. Sources of supply are listed in MIL-HDBK-103 and QML-38534. The vendors listed in MIL-HDBK-103 and QML-38534 have submitted a certificate of compliance (see 3.7 herein) to DLA Land and Maritime-VA and have agreed to this drawing.

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# STANDARD MICROCIRCUIT DRAWING BULLETIN

## DATE: 17-08-03

Approved sources of supply for SMD 5962-93140 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38534 during the next revisions. MIL-HDBK-103 and QML-38534 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 revisions of MIL-HDBK-103 and QML-38534. 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> /
5962-9314001EPA 5962-9314001EPC 5962-9314001EPC 5962-9314001EPC 5962-9314001HPA 5962-9314001HPA 5962-9314001HPC 5962-9314001HPC 5962-9314001EXA 5962-9314001EXA 5962-9314001EXA 5962-9314001HXA 5962-9314001HXA 5962-9314001HYA 5962-9314001HYA 5962-9314001HZA 5962-9314001HZA 5962-9314001HZA 5962-9314001HZA 5962-9314001HZA 5962-9314001HZA	31757 50434 31757 50434 31757 50434 31757 50434 31757 50434 31757 50434 31757 50434 31757 50434 31757 50434 31757 50434 31757 50434 31757 50434	53111-1EPA HSSR-711E-200 53111-1EPC HSSR-711E 53111-1HPA HSSR-7111#200 53111-1HPC HSSR-7111 53111-1EXA ASSR-711E-300 53111-1EXC 53111-1EXC 53111-1HXA HSSR-7111#300 53111-1HXC 53111-1HYA HSSR-7111#100 53111-1HYC HSSR-7111#600 53111-1HZC HSSR-7111#600
5962-9314002EPA 5962-9314002EPA 5962-9314002EPC 5962-9314002EPC 5962-9314002HPA 5962-9314002HPA 5962-9314002HPC 5962-9314002EXA 5962-9314002EXA 5962-9314002EXA 5962-9314002HXA 5962-9314002HXA 5962-9314002HXA 5962-9314002HYA 5962-9314002HYA 5962-9314002HYC 5962-9314002HYC 5962-9314002HZA 5962-9314002HZA 5962-9314002HZA 5962-9314002HZA 5962-9314002HZA	31757 50434 31757 50434 31757 50434 31757 50434 31757 50434 31757 31757 50434 31757 50434 31757 50434 31757 50434 31757 50434 31757 50434	53111-2EPA ASSR-7112E-200 53111-2EPC ASSR-7112E 53111-2HPA HSSR-7112-200 53111-2HPC HSSR-7112 53111-2EXC 53111-2EXC 53111-2EXC 53111-2HXA HSSR-7112-300 53111-2HXA HSSR-7112-100 53111-2HYC HSSR-7112-100 53111-2HYC HSSR-7112-600 53111-2HZC ASSR-7112-600
5962-9314003HPA 5962-9314003HPC 5962-9314003HXA 5962-9314003HXA 5962-9314003HXC	31757 31757 31757 31757 31757	53111-3HPA 53111-3HPC 53111-3HXA 53111-3HXC

DATE: 17-08-03

Standard	Vendor	Vendor
microcircuit drawing	CAGE	similar
PIN <u>1</u> /	number	PIN <u>2</u> /
5962-9314004HPA	31757	53115-4HPA
5962-9314004HPC	31757	53115-4HPC
5962-9314004HXA	31757	53115-4HXA
5962-9314004HXC	31757	53115-4HXC
5962-9314004HXA	31757	53115-4HXA
5962-9314004HYA	31757	53115-4HYA
5962-9314004HYC	31757	53115-4HYC

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

31757

Vendor name and address

Micropac Industries Incorporated 905 East Walnut Street Garland, TX 75040

50434

Avago Technologies 1320 Ridder Park Drive San Jose, CA 95131

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