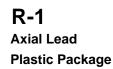


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1A GLASS PASSIVATED SILICON RECTIFIERS







Polarity: Colour band denotes cathode end

FEATURES

- 1). Low Reverse Leakage Current
- 2). High Forward Surge Current Capability
- 3). The Plastic Package Carries Underwriters Laboratory Flammability Classification 94V-O.
- 4). Glass Passivated Chip Junction
- 5). Construction Utilizes Void-Free Molded Plastic Technique
- 6). High Temperature Soldering Guaranteed : 260°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs (2.3Kg) tension
- 7). Weight: 0.20grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at T_A=25°C Ambient Temperature unless otherwise specified.)

Single Phase, Half Wave 60Hz, Resistive or Inductive Load, for Capacitive Load, Derate Current by 20%

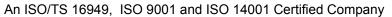
Single Phase, Half Wave 60Hz	nductive Load, for Capacitive Load, Derate Current by 20%.									
CHARACTERISTICS		SYMBOL	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length at		I _(AV)	1.0							Α
Peak Forward Surge Current 8.3ms Single Half Sine -Wave Superimposed on Rated Load		I _{FSM}	30							А
Maximum Instanteneous Forward Voltage at 1.0A		V _F	1.1						>	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _{R1}	5							μΑ
	T _A =100°C	I _{R2}	50							μΑ
Typical Junction Capacitance (Note 1)		Cj	15							pF
Typical Thermal Resistance (Note 2)		$R_{\theta J-A}$	50							°C/W
Operating Junction and Storage Temperature Range		T_{j},T_{stg}	-55 to +150							°C

Note 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Note 2. Thermal Resistance Junction to Ambient at 0.375" (9.5mm) lead length, P.C.B. mounted



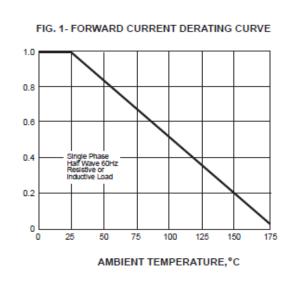
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CHARACTERISTICS CURVES







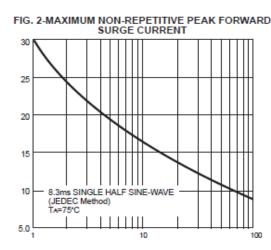
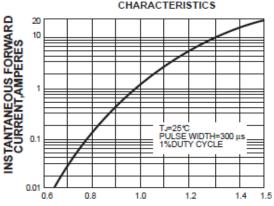
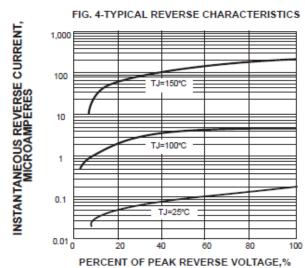


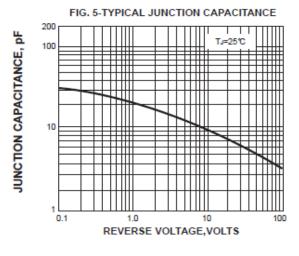
FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

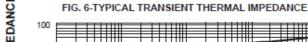


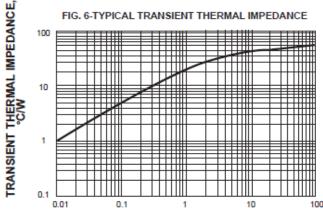
NUMBER OF CYCLES AT 60 Hz



INSTANTANEOUS FORWARD VOLTAGE, VOLTS







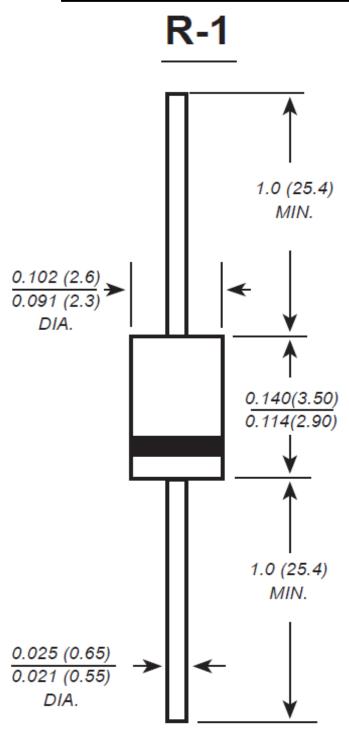
t,PULSE DURATION,sec.



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PACKAGE OUTLINE AND DIMENSIONS



Dimensions in inches and (millimeters)



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Component Disposal Instructions

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

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The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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