

TECHNICAL DATA
DATA SHEET 628, REV. A
Formerly part number SHD1154/A/B

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Voltage Drop

DESCRIPTION: 100 VOLT, 45 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-2/2B PACKAGE.

MAXIMUM RATINGS

ALL RATINGS ARE @ $T_c = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

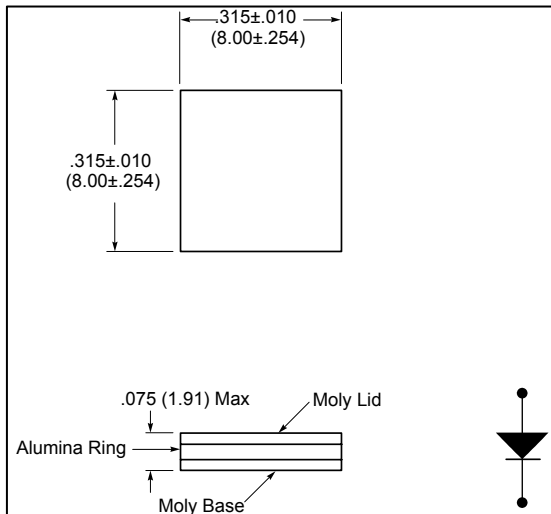
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT @ $T_c=100^\circ\text{C}$	I_o	45	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine) (per leg)	I_{FSM}	200	Amps
MAXIMUM THERMAL RESISTANCE (per leg)	$R_{\theta JC}$	0.4	$^\circ\text{C/W}$
MAXIMUM JUNCTION TEMPERATURE RANGE	Top	-65 to + 175	$^\circ\text{C}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Tstg	-65 to + 175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

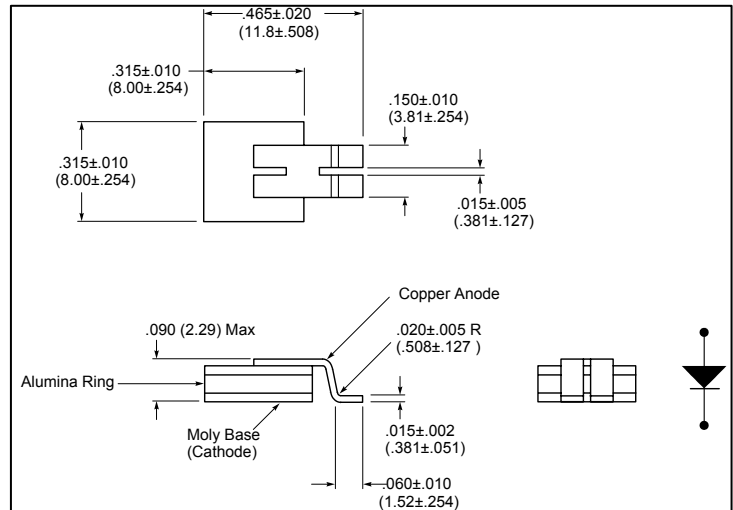
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 45$ Amps) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	0.89 0.70	Volts
MAXIMUM REVERSE CURRENT (I_r @ 100V PIV) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	1.5 20	mA
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$) (per leg)	C_T	1400	pF

SENSITRON
DATA SHEET 628, REV. A

MECHANICAL DIMENSIONS: In Inches / mm



SHD-2



SHD-2B

DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
- 4- In no event shall Sensitron Semiconductor be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or Sensitron Semiconductor.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of Sensitron Semiconductor.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.