

TECHNICAL DATA  
DATA SHEET 628, REV. B  
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.

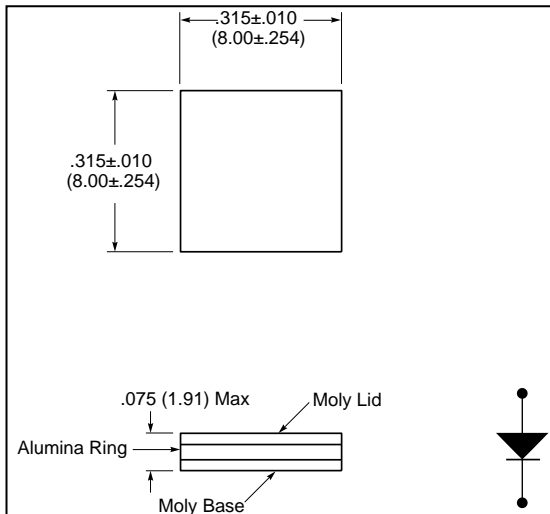
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT @ $T_c=100^\circ\text{C}$	$I_o$	45	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ( $t = 8.3\text{ms}$ , Sine) (per leg)	$I_{FSM}$	200	Amps
MAXIMUM THERMAL RESISTANCE (per leg)	$R_{\theta JC}$	0.7	$^\circ\text{C/W}$
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**

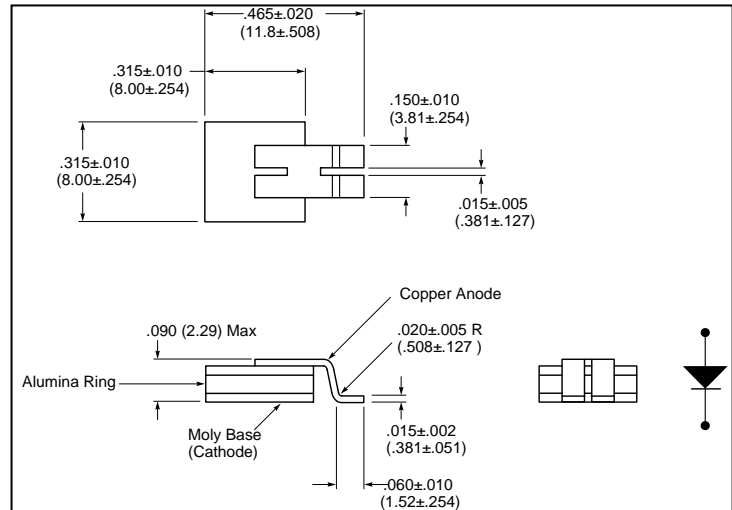
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 45$ Amps) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	$V_f$	0.89 0.70	Volts
MAXIMUM REVERSE CURRENT ( $I_r$ @ 100V PIV) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	$I_r$	1.5 20	mA
MAXIMUM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

**SENSITRON**  
**DATA SHEET 628, REV. B**

**MECHANICAL DIMENSIONS: In Inches / mm**



**SHD-2**



**SHD-2B**

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