## SENSITRON SEMICONDUCTOR

TECHNICAL DATA DATA SHEET 4045, REV. B

# HERMETIC SCHOTTKY POWER RECTIFIER Low Voltage Drop

DESCRIPTION: A 60-VOLT, 7.5 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-1/1B PACKAGE.

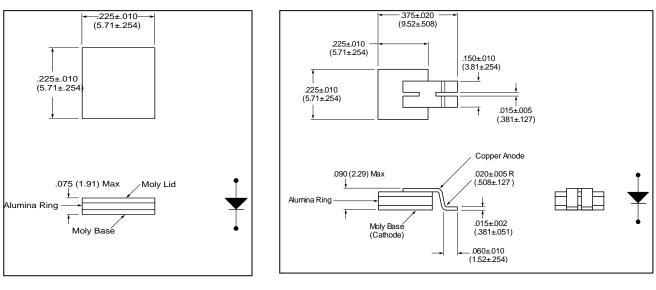
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	<b>FINGS</b> ALL RATINGS ARE $@ T_c = 25 \degree C$ UNLESS OTHERWISE SPECIFIED.			
RATING	SYMBOL	MAX.	UNITS	
PEAK INVERSE VOLTAGE	PIV	60	Volts	
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c$ =100 $^{\circ}$ C)		7.5	Amps	
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT		140	Amps	
(t = 8.3ms, Sine)				
MAXIMUM JUNCTION CAPACITANCE ( $V_r = 5V$ )	C <sub>T</sub>	400	pF	
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode	e) R <sub>eJC</sub>	3.2	°C/W	
MAXIMUM OPERATING TEMPERATURE RANGE		-65 to + 175	°C	
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 175	°C	

### ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed $(I_f = 7.5 \text{ Amps})$			
T <sub>J</sub> = 25 °C	V <sub>f</sub>	0.64	Volts
T <sub>J</sub> = 125 °C	-1	0.57	
MAXIMUM REVERSE CURRENT (Ir @ 60V PIV)			
T <sub>J</sub> = 25 °C	l <sub>r</sub>	0.2	mA
T <sub>J</sub> = 125 °C		15	

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**MECHANICAL DIMENSIONS: In Inches / mm** 

<u>SHD-1</u>

SHD-1B

#### PINOUT TABLE

ТҮРЕ	PIN 1 (Base)	PIN 2
SINGLE RECTIFIER	CATHODE	ANODE
in a Surface Mount Package		

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