TECHNICAL DATA DATA SHEET 1053, REV. D

# HERMETIC SCHOTTKY POWER RECTIFIER Low Voltage Drop

**DESCRIPTION:** A 45 VOLT, 60 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-2/2B PACKAGE.

### **MAXIMUM RATINGS**

ALL RATINGS ARE @  $T_C = 25$  °C UNLESS OTHERWISE SPECIFIED.

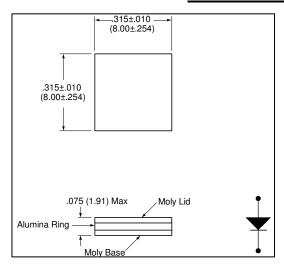
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T <sub>C</sub> =100 <sup>O</sup> C)	Io	60	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT	I <sub>FSM</sub>	860	Amps
(t = 8.3ms, Sine)			
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> = 5V)	C <sub>T</sub>	2400	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ ext{ hetaJC}}$	0.35	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Тор	-65 to + 150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 150	°C

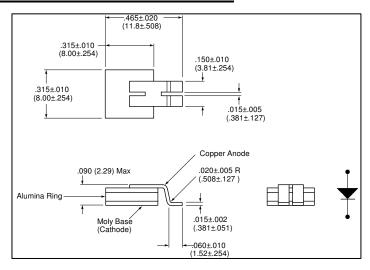
## **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> = 60 Amps)			
T <sub>J</sub> = 25 °C	V <sub>f</sub>	0.64	Volts
T <sub>J</sub> = 125 °C		0.61	
MAXIMUM REVERSE CURRENT (I, @ 45V PIV)			
T <sub>J</sub> = 25 °C	l <sub>r</sub>	4.5	mA
T <sub>J</sub> = 125 °C		210	

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# MECHANICAL DIMENSIONS: In Inches / mm



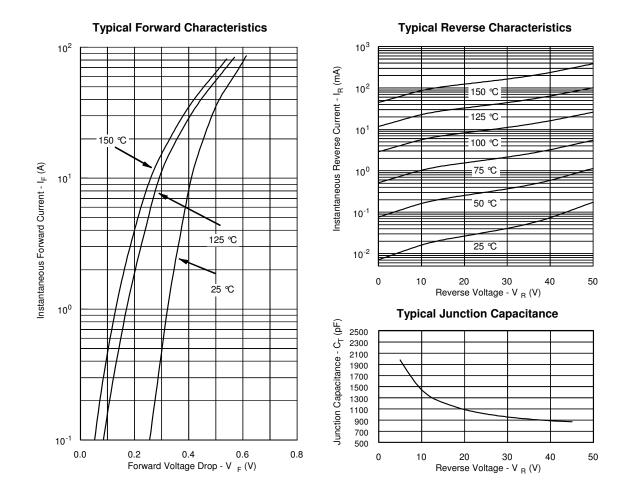


SHD-2B

## **PINOUT TABLE**

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

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Note: The above Vf characteristics are for die on

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