DATA SHEET 4048, REV. C Formerly SHD1142

# HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

**DESCRIPTION:** A 45-VOLT, 120 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC CERAMIC SHD-3/3B PACKAGE.

### **MAXIMUM RATINGS**

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

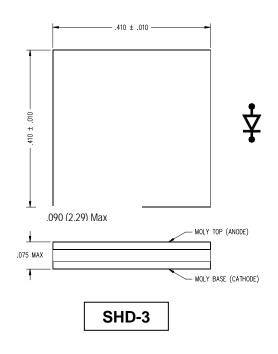
70 DAMES   10 - 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LCC CITILITY	<u></u>	
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T <sub>C</sub> =100 <sup>O</sup> C)	Io	120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I <sub>FSM</sub>	1650	Amps
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	Ст	4800	pF
MAXIMUM THERMAL RESISTANCE	$R_{ heta JC}$	0.20	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

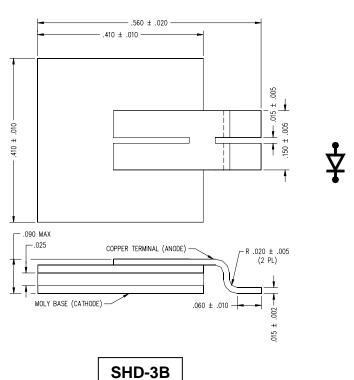
## **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> = 120 Amps)			
T <sub>J</sub> = 25 °C	$V_{f}$	0.66	Volts
T <sub>J</sub> = 125 °C	- 1	0.59	
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 45V PIV)			
T <sub>J</sub> = 25 °C	$I_r$	2.4	mA
T <sub>J</sub> = 125 °C		90	

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### **MECHANICAL DIMENSIONS: In Inches / mm**





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