TECHNICAL DATA DATA SHEET 1080, REV. A

# HERMETIC POWER SCHOTTKY RECTIFIER 175°C Maximum Operation Temperature

DESCRIPTION: A 45 VOLT, 60 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD5/5A/5B PACKAGE.

### **MAXIMUM RATINGS**

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

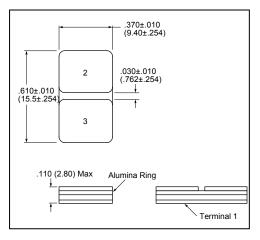
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T <sub>C</sub> =100 <sup>O</sup> C)	Io	60	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine Wave) (per leg)	I <sub>FSM</sub>	570	Amps
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	C <sub>T</sub>	1600	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	0.7	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

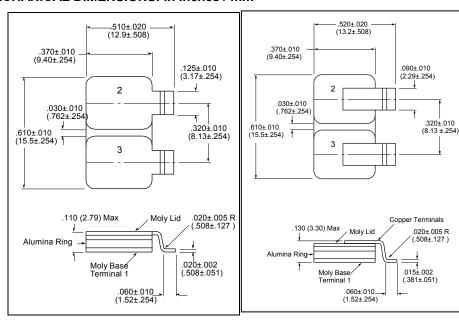
# **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> = 30 Amps) (per leg)			
T <sub>J</sub> = 25 °C	$V_{f}$	0.64	Volts
T <sub>J</sub> = 125 °C	• 1	0.57	
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 45V PIV) (per leg)			
T <sub>J</sub> = 25 °C	l <sub>r</sub>	0.8	mA
T <sub>J</sub> = 125 °C		30	

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

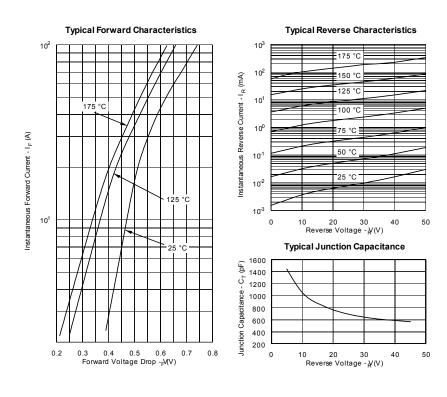




SHD-5A SHD-5B

# **PINOUT TABLE**

DEVICE TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, COMMON CATHODE (P)	COMMON CATHODE	ANODE	ANODE



#### **SENSITRON**

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