## <u>SENSITRON</u> SEMICONDUCTOR

TECHNICAL DATA DATA SHEET 577, REV. C

# HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

**DESCRIPTION:** 200 VOLT, 3 AMP, HERMETIC POWER SCHOTTKY RECTIFIER IN A SHD-1/1A/1B PACKAGE.

MAXIMUM RATINGS

ALL RATINGS ARE @  $T_c = 25 \,^{\circ}C$  UNLESS OTHERWISE SPECIFIED.

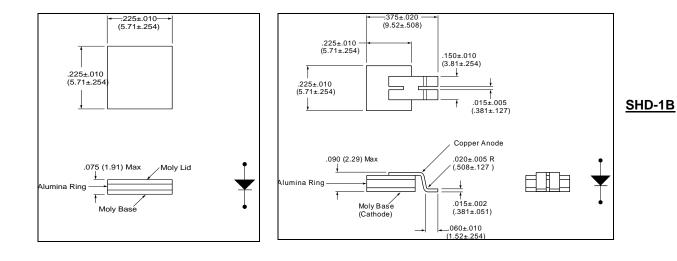
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	200	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_{C}$ =100 $^{\circ}$ C)	Ι <sub>Ο</sub>	3.0	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT	I <sub>FSM</sub>	55	Amps
(t=8.3ms, Sine)			
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	C <sub>T</sub>	60	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	7.07	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 200	°C

#### **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed $(I_f = 3.0 \text{ Amps})$			
T <sub>J</sub> = 25 °C	Vf	0.92	Volts
T <sub>J</sub> = 125 °C	-1	0.76	
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 200V PIV)			
T <sub>J</sub> = 25 °C	l <sub>r</sub>	0.07	mA
T <sub>J</sub> = 125 °C		4.6	

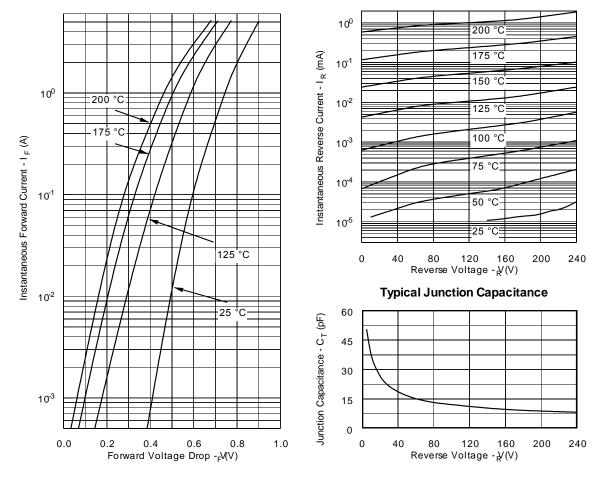
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SHD-1



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

Typical Forward Characteristics



### **Typical Reverse Characteristics**

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