

TECHNICAL DATA DATA SHEET 250, REV. C

# HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

**DESCRIPTION:** A 100 VOLT, 120 AMP, HERMETIC POWER SCHOTTKY RECTIFIER IN A SHD-3/3A/3B PACKAGE.

# **MAXIMUM RATINGS**

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

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RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	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=10ms, Sine)	I <sub>FSM</sub>	1400	Amps
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	C <sub>T</sub>	3000	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	0.20	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 200	°C

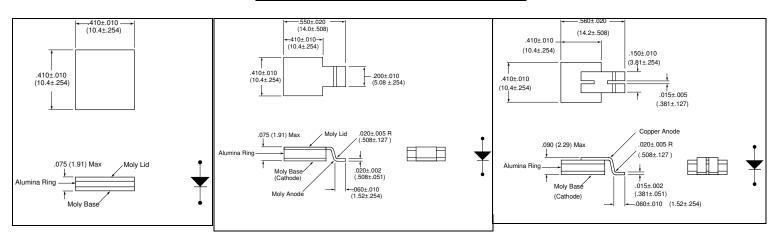
#### **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC				
MAXIMUM FORWARD VOLTAGE DROP, Pulsed	(I <sub>f</sub> = 120 Amps)			
	$T_J = 25  ^{\circ}C$	$V_{f}$	0.87	Volts
	T <sub>J</sub> = 125 °C		0.72	
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 100 V PIV)				
	$T_J = 25  ^{\circ}C$	I <sub>r</sub>	1.0	mA
	T <sub>.1</sub> = 125 °C		6.0	

#### **SENSITRON**

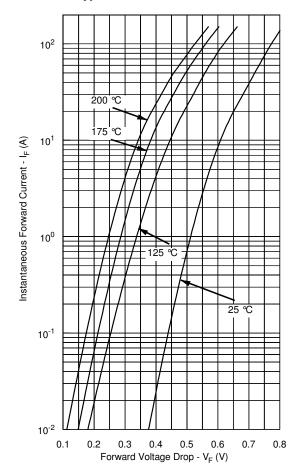
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## MECHANICAL DIMENSIONS: In Inches / mm

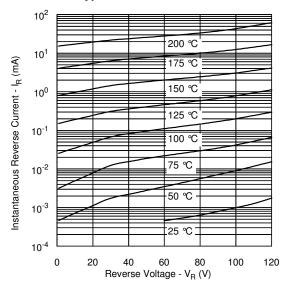


SHD-3A SHD-3B

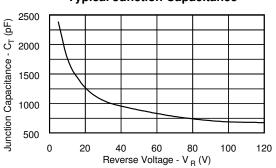
## **Typical Forward Characteristics**



## **Typical Reverse Characteristics**



#### **Typical Junction Capacitance**





#### **TECHNICAL DATA**

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