

TECHNICAL DATA DATASHEET 5188, REV. A

# HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

## **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 @ Tc=100 °C)	lo	60	Amps	
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=10ms, Sine)	I <sub>FSM</sub>	700	Amps	
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	Ст	1500	pF	
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	Rθ <sub>JC</sub>	0.70	°C/W	
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to +200	°C	

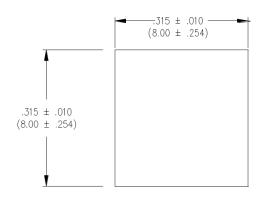
## **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (per leg, I <sub>f</sub> = 60 Amps)			
T <sub>J</sub> = 25 °C	$V_{f}$	0.87	Volts
T <sub>J</sub> = 125 °C		0.72	
MAXIMUM REVERSE CURRENT (per leg, I <sub>r</sub> @ 100 V PIV)			
T <sub>J</sub> = 25 °C	l <sub>r</sub>	1.0	mA
T <sub>J</sub> = 125 °C		24.0	

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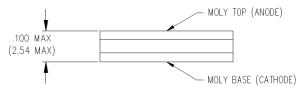
# **MECHANICAL DIMENSIONS\*: In Inches / mm**

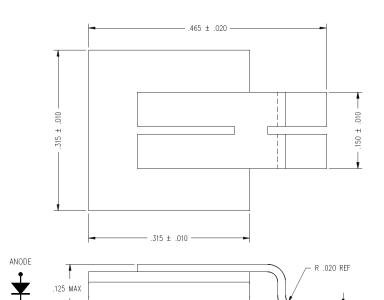
\*Dimensions shown are with solder dipping.



SHD-2 HP

.015 REF





SHD-2B HP

ANODE

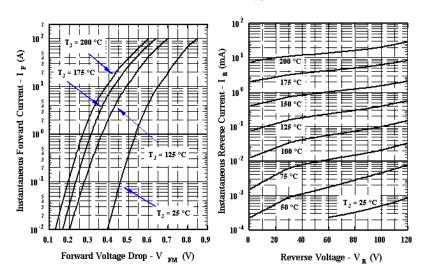
.060 ± .020

CATHODE

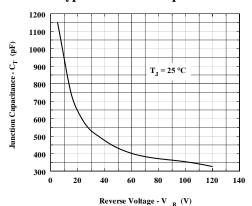
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#### **Typical Forward Characteristics**

#### **Typical Reverse Characteristics**



#### **Typical Junction Capacitance**



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