

TECHNICAL DATA  
DATA SHEET 295, REV. B

**HERMETIC POWER SCHOTTKY RECTIFIER**  
**Ultra Low Reverse Leakage**

**DESCRIPTION:** 100 VOLT, 60 AMP, HERMETIC POWER SCHOTTKY RECTIFIERS IN A SHD-2/2B PACKAGE.

**MAXIMUM RATINGS**

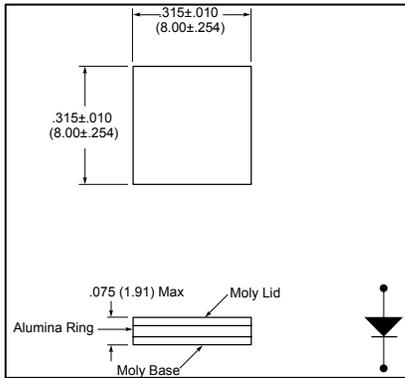
ALL RATINGS ARE @  $T_c = 25^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c = 100^\circ\text{C}$ )	$I_o$	60	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ( $t = 8.3\text{ms}$ , Sine)	$I_{FSM}$	860	Amps
MAXIMUM JUNCTION CAPACITANCE ( $V_r = 5\text{V}$ )	$C_T$	1500	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	0.35	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to +200	$^\circ\text{C}$

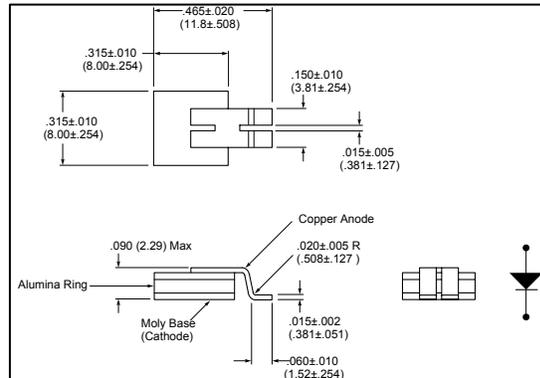
**ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 60$ Amps) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	$V_f$	0.87 0.72	Volts
MAXIMUM REVERSE CURRENT ( $I_r @ 100$ V PIV) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	$I_r$	0.03 3.0	mA

**MECHANICAL DIMENSIONS: In Inches / mm**

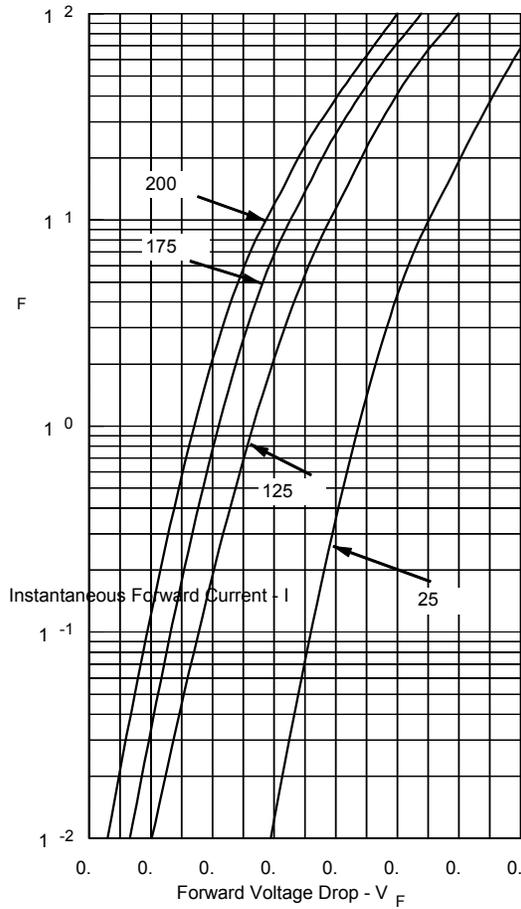


**SHD-2**

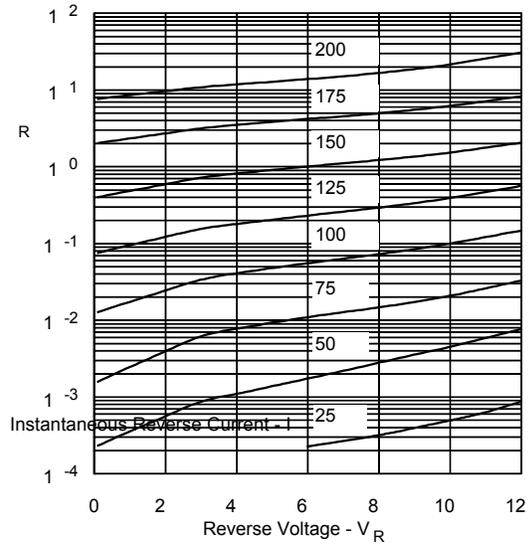


**SHD-2B**

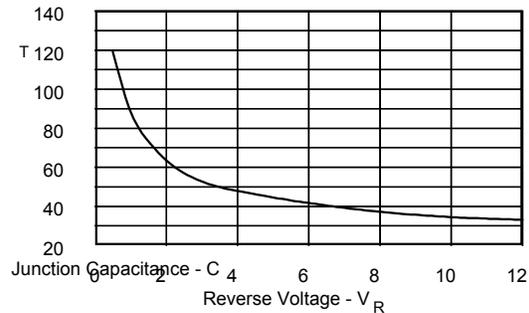
**Typical Forward Characteristics**



**Typical Reverse Characteristics**



**Typical Junction Capacitance**



Curves are for die only

**SENSITRON**  
**TECHNICAL DATA**  
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