

TECHNICAL DATA
DATA SHEET 255, REV. C

HERMETIC POWER SCHOTTKY RECTIFIER
200°C Maximum Operation Temperature

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=10ms, Sine)	I_{FSM}	700	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_f=5\text{V}$)	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	T_{op}/T_{stg}	-65 to +200	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

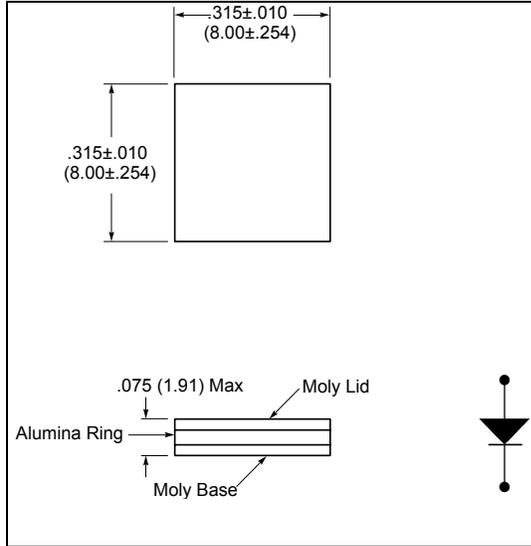
CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (per leg, $I_f = 60$ Amps) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	0.87 0.72	Volts
MAXIMUM REVERSE CURRENT (per leg, I_r @ 100 V PIV) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	0.5 3.0	mA

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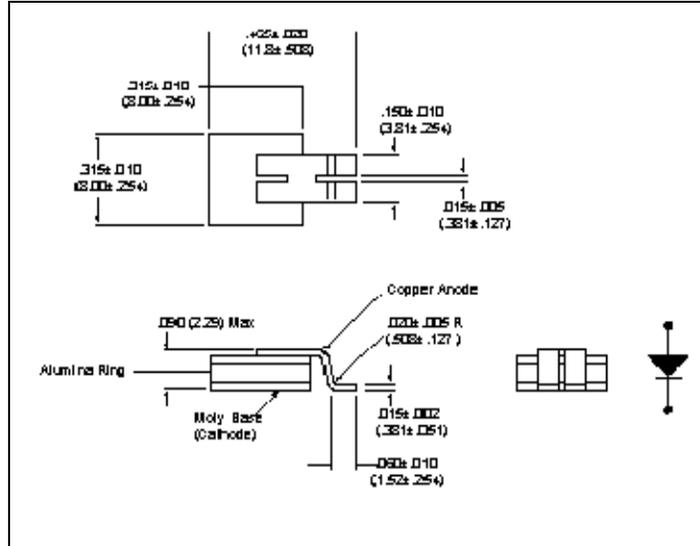
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SENSITRON
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MECHANICAL DIMENSIONS: In Inches / mm



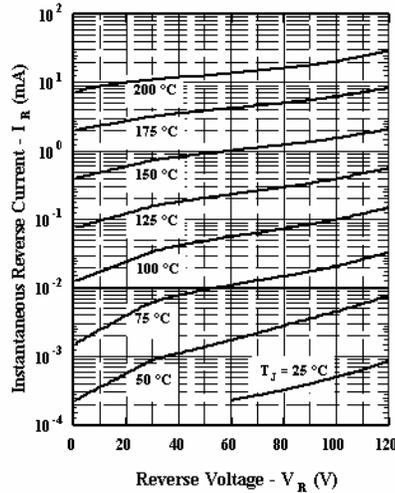
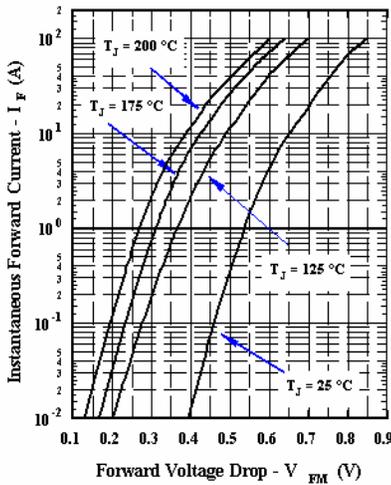
SHD-2



SHD-2B

Typical Forward Characteristics

Typical Reverse Characteristics



Typical Junction Capacitance

