

TECHNICAL DATA
DATA SHEET 632, REV. A

HERMETIC POWER SCHOTTKY RECTIFIER
Low Reverse Leakage
175 °C Operating Temperature

DESCRIPTION: 60 VOLT, 15 AMP, POWER SCHOTTKY RECTIFIER IN A SHD-1/1B PACKAGE.

MAXIMUM RATINGS

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	60	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c=100^\circ\text{C}$)	I_o	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t=8.3\text{ms}$, Sine)	I_{FSM}	280	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	720	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	0.85	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

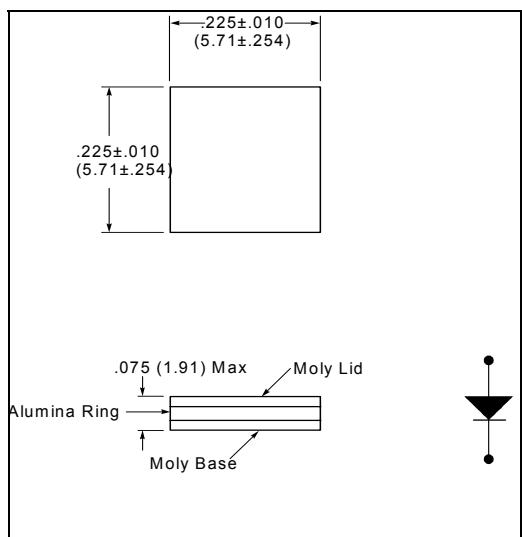
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 15$ Amps)			
$T_J = 25^\circ\text{C}$	V_f	.64	Volts
$T_J = 125^\circ\text{C}$.57	
MAXIMUM REVERSE CURRENT (I_r @ 60V PIV)			
$T_J = 25^\circ\text{C}$	I_r	.40	mA
$T_J = 125^\circ\text{C}$		30	

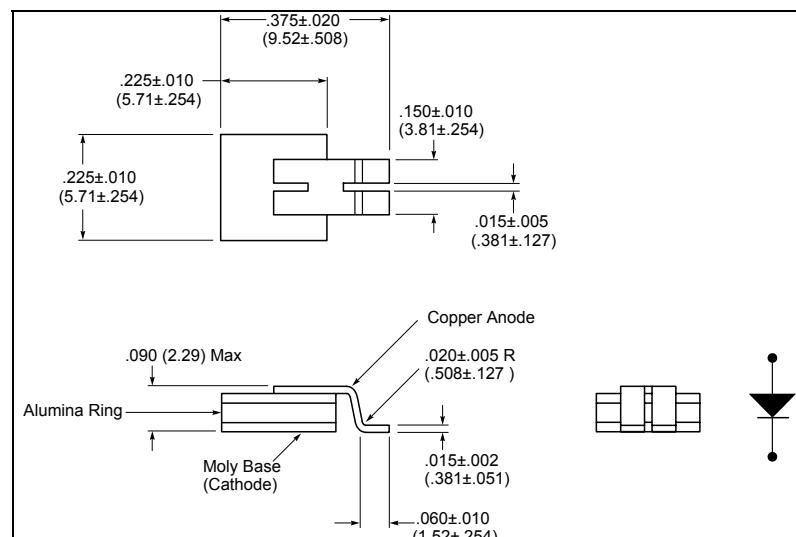
SENSITRON

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MECHANICAL DIMENSIONS: In Inches / mm

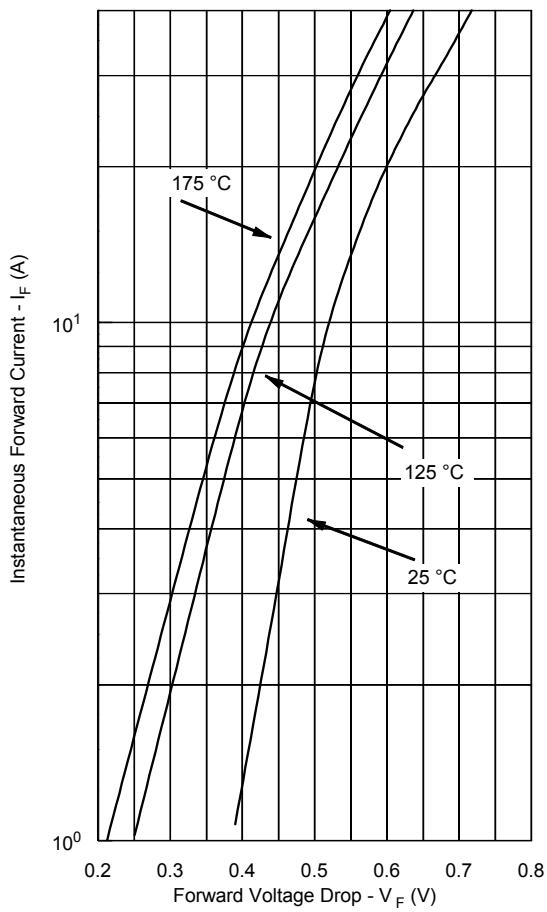


SHD-1

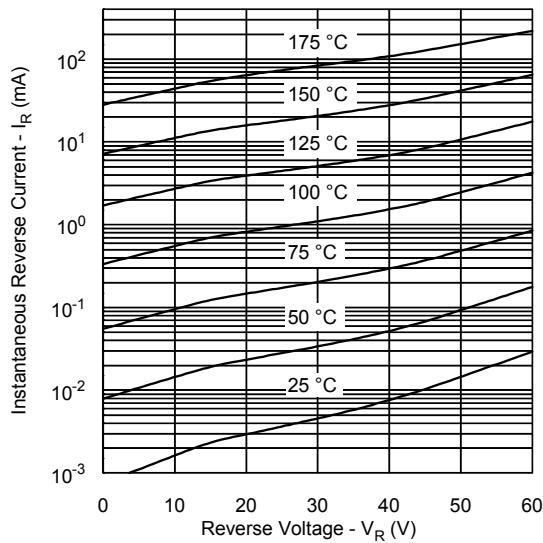


SHD-1B

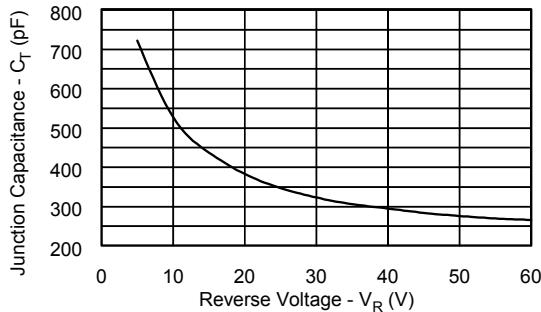
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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