

TECHNICAL DATA
DATA SHEET 333, REV. A

ULTRA LOW REVERSE LEAKAGE POWER SCHOTTKY RECTIFIER Very Low Voltage Drop

DESCRIPTION: 100 VOLT, 3.0 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-1/A/B PACKAGE.

MAXIMUM RATINGS

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c=100\text{ }^\circ\text{C}$)	I_o	3.0	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine)	I_{FSM}	55	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$) (per leg)	C_T	100	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	3.7	$^\circ\text{C/W}$
MAXIMUM OPERATING TEMPERATURE RANGE	Top	-65 to + 200	$^\circ\text{C}$
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 175	$^\circ\text{C}$

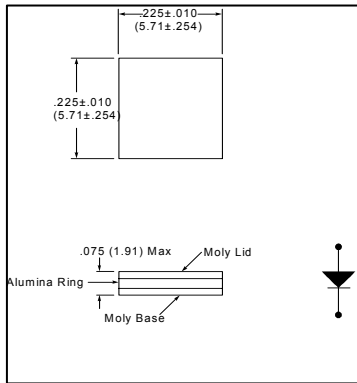
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 3.0\text{ Amps}$) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	V_f	0.84 0.68	Volts
MAXIMUM REVERSE CURRENT ($I_r @ 100\text{V PIV}$) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	I_r	0.005 0.25	mA

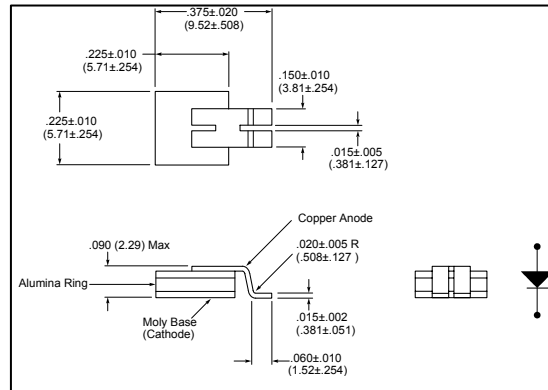
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MECHANICAL DIMENSIONS: In Inches / mm

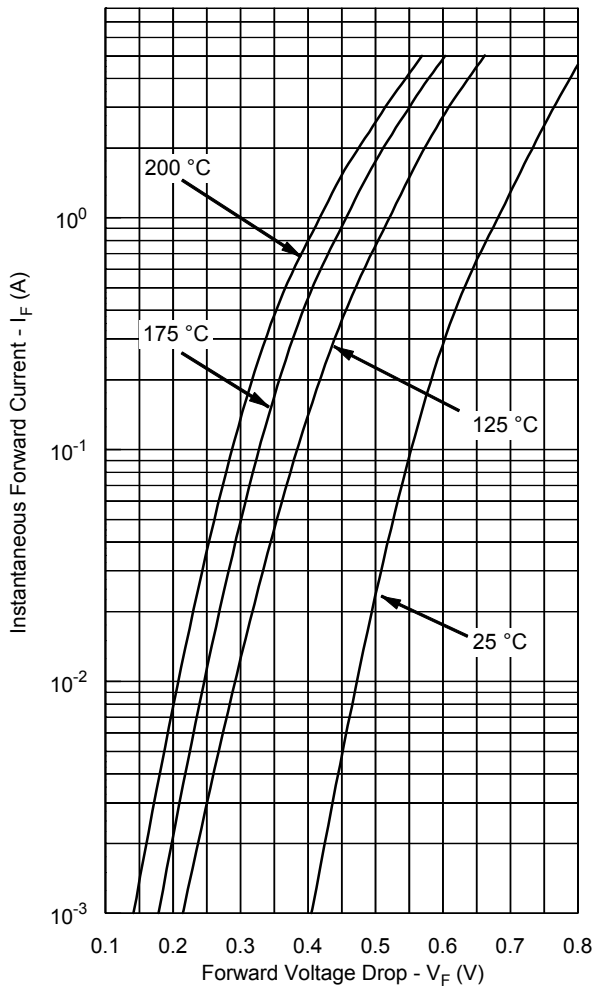
SHD-1



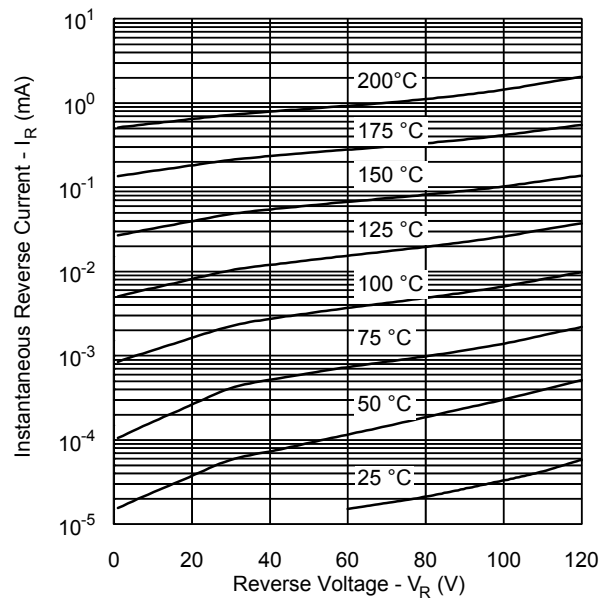
SHD-1B



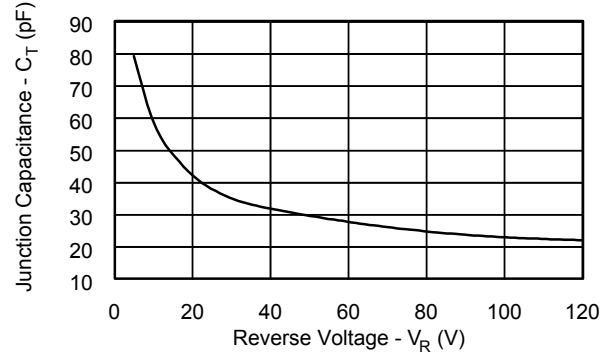
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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