SENSITRON
SEMICONDUCTOR

TECHNICAL DATA
DATA SHEET 902, REV. A

HERMETIC POWER SCHOTTKY RECTIFIER
Low Forward Voltage Drop

DESCRIPTION: A 45 VOLT, 120 AMP, POWER SCHOTTKY RECTIFIER IN A SHD-3/3-A/3-B PACKAGE.

MAXIMUM RATINGS ALL RATINGS ARE @ T_C = 25 °C UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT @ T_C=100 ^{O}C	I_O	120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I_{FSM}	1650	Amps
MAXIMUM JUNCTION CAPACITANCE (V_r=5V)	C_T	4800	pF
MAXIMUM THERMAL RESISTANCE (Junction to cathode)	$R_{\theta JC}$	0.38	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I_f = 120 Amps)			
T_J = 25 °C	V_f	0.60	Volts
T_J = 125 °C		0.57	
MAXIMUM REVERSE CURRENT (I_r @ 45 V PIV)			
T_J = 25 °C	I_r	9.0	mA
T_J = 125 °C		420	

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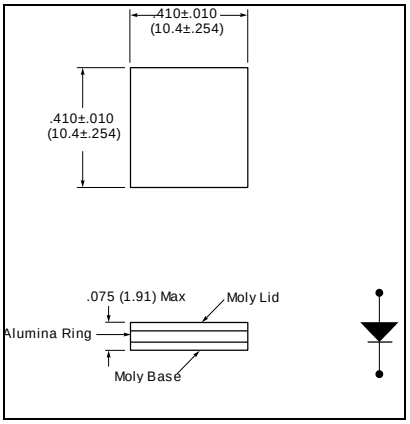
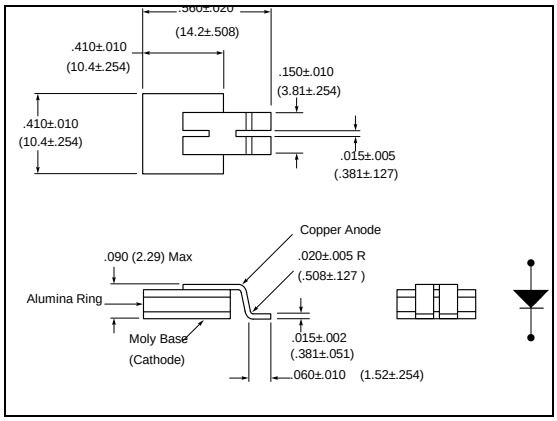
MECHANICAL DIMENSIONS: In Inches / mm

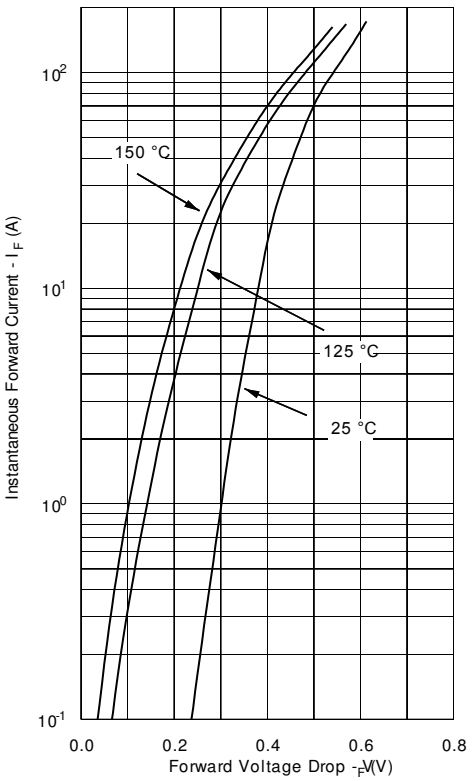


SHD-3

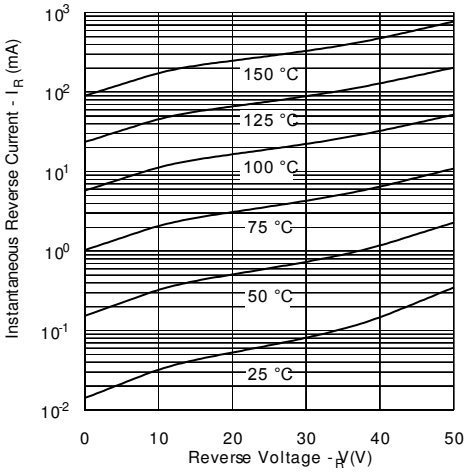


SHD-3B

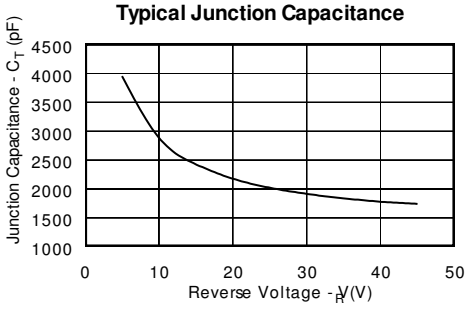
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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