SENSITRON SEMICONDUCTOR

TECHNICAL DATA
DATA SHEET 295, REV. D

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 °C UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T_C = 100 °C)	I_O	60	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I_{FSM}	860	Amps
MAXIMUM JUNCTION CAPACITANCE (V_r =5V)	C_T	1500	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	0.7	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to +175	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I_f = 60 Amps)			
T_J = 25 °C	V_f	0.87	Volts
T_J = 125 °C		0.72	
MAXIMUM REVERSE CURRENT (I_r @ 100 V PIV)			
T_J = 25 °C	I_r	0.3	mA
T_J = 125 °C		3.0	

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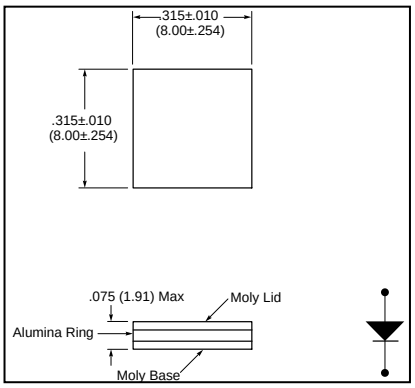
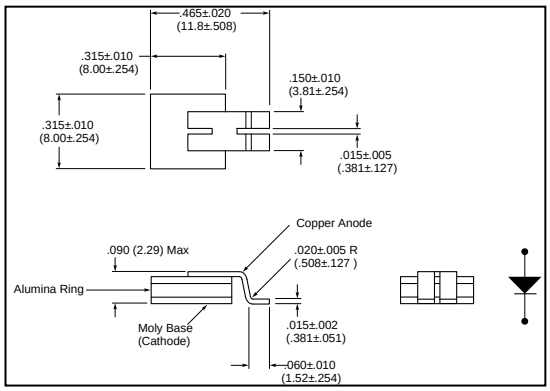
MECHANICAL DIMENSIONS: In Inches / mm

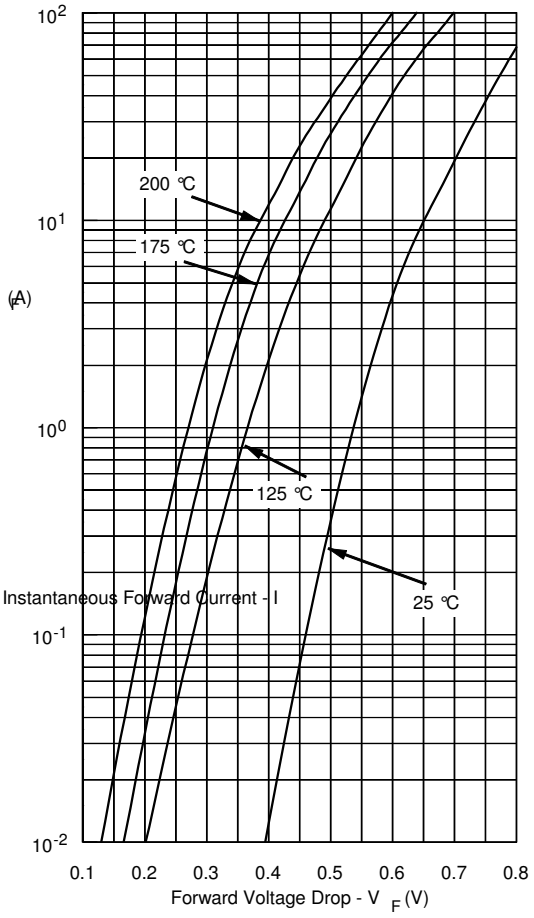


SHD-2

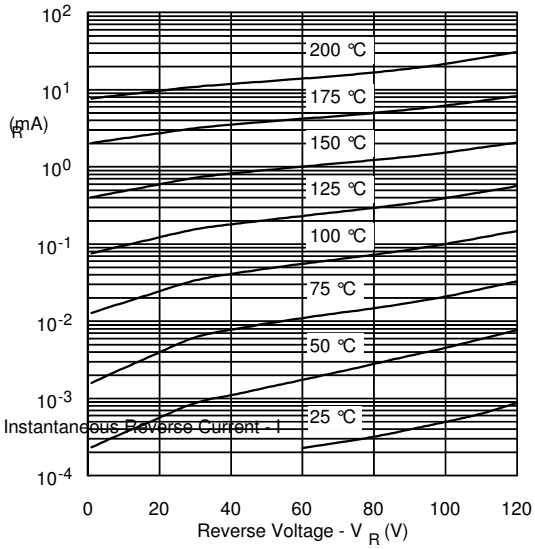


SHD-2B

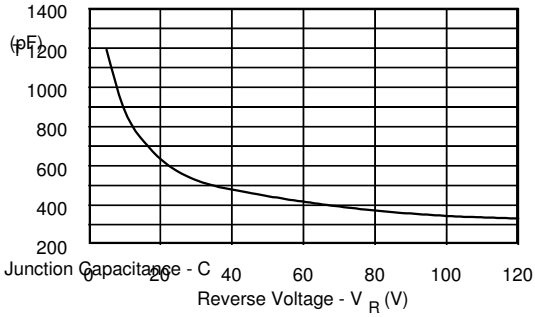
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



Curves are for die only

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