

TECHNICAL DATA
DATA SHEET 5391, REV. A

HERMETIC POWER SCHOTTKY RECTIFIER 175°C Maximum Operation Temperature

DESCRIPTION: A 100 VOLT, 120 AMP, HERMETIC POWER SCHOTTKY RECTIFIER IN A SHD-3/3B HP PACKAGE.

MAXIMUM RATINGS

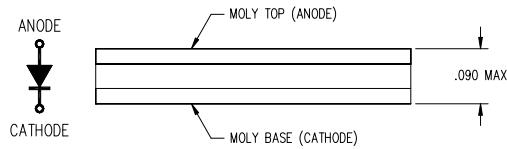
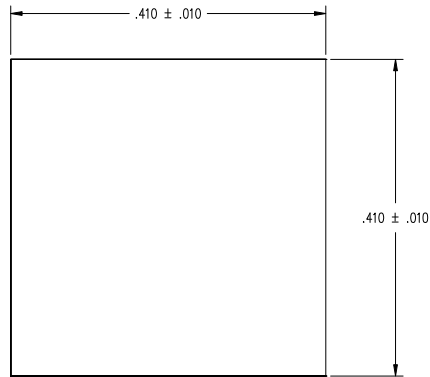
ALL RATINGS ARE @ $T_C = 25\text{ }^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

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	120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=10ms, Sine)	I_{FSM}	1500	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	3000	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	0.44	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to +175	$^\circ\text{C}$

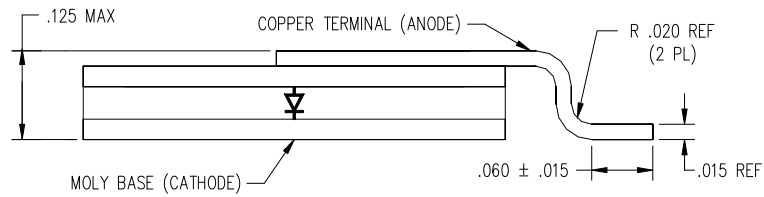
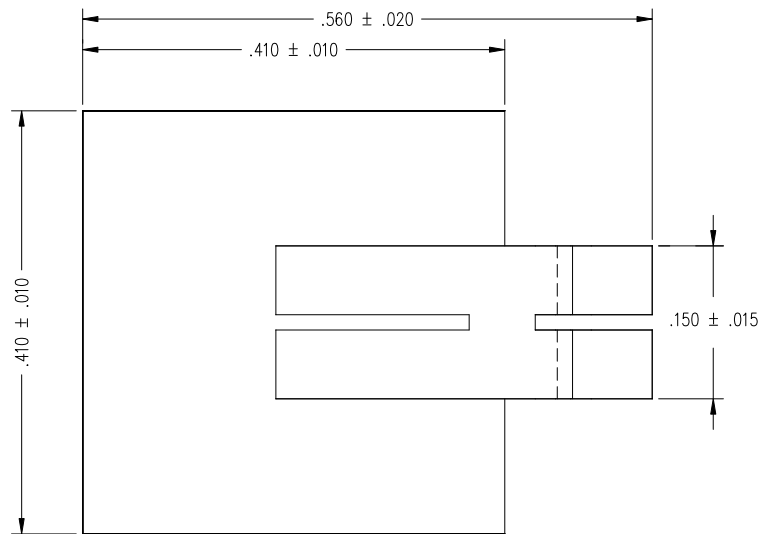
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 120\text{ Amps}$) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	V_f	0.91 0.78	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	2.0 20	mA

MECHANICAL DIMENSIONS: In Inches / mm



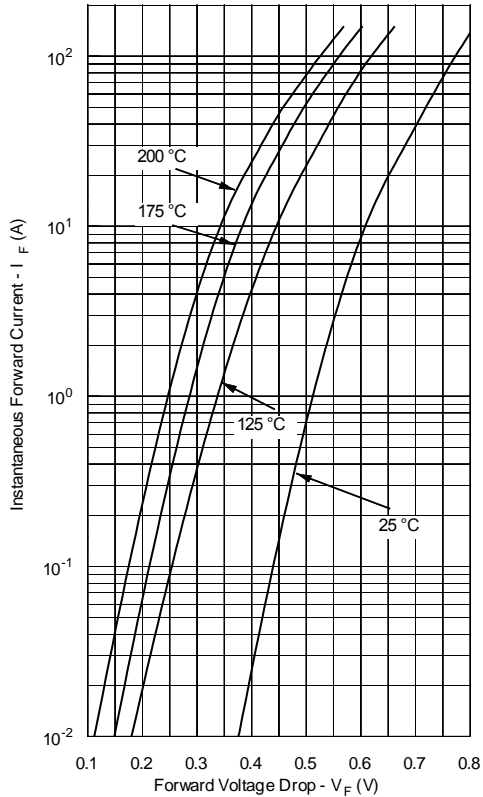
SHD-3 HP



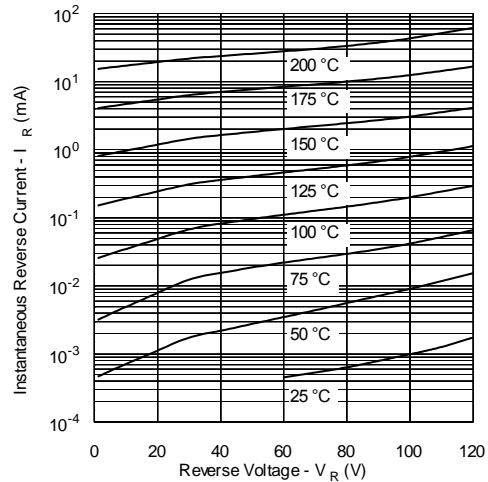
SHD-3B HP

SENSITRON
DATA SHEET 5391, REV. A

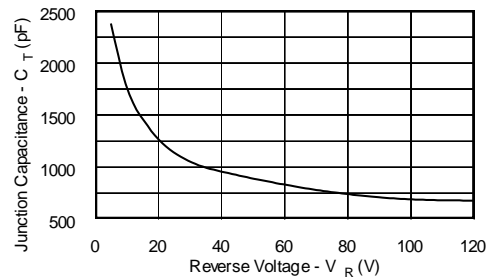
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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