

TECHNICAL DATA
DATA SHEET 380, REV. A
Formerly part number SHD1164/A/B

HERMETIC POWER SCHOTTKY RECTIFIER
200°C Maximum Operation Temperature

Add suffix "S" to the part number(s) for **S-100 Screening**.

DESCRIPTION: A 100V, 15A, POWER SCHOTTKY RECTIFIER IN HERMETIC SHD-1/1B PACKAGE.

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	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	500	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	0.85	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 200	$^\circ\text{C}$

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

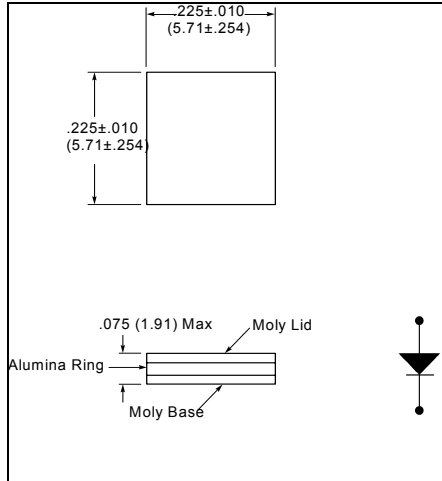
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 15\text{ Amps}$) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	V_f	0.84 0.68	Volts
MAXIMUM REVERSE CURRENT ($I_r @ 100\text{V PIV}$) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	I_r	0.35 8.0	mA

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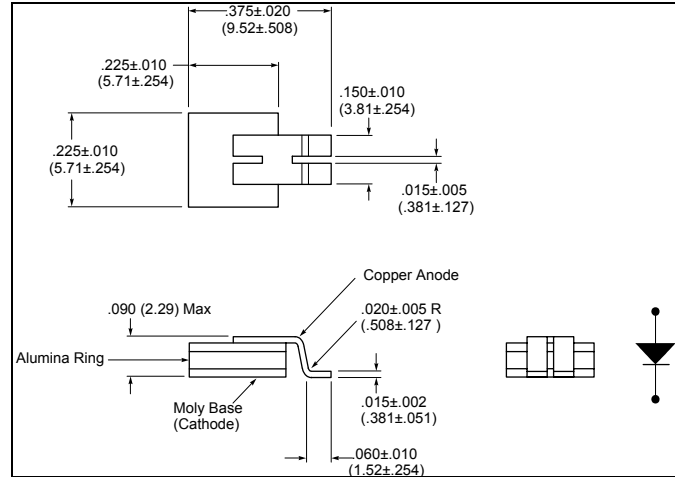
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MECHANICAL DIMENSIONS: In Inches / mm

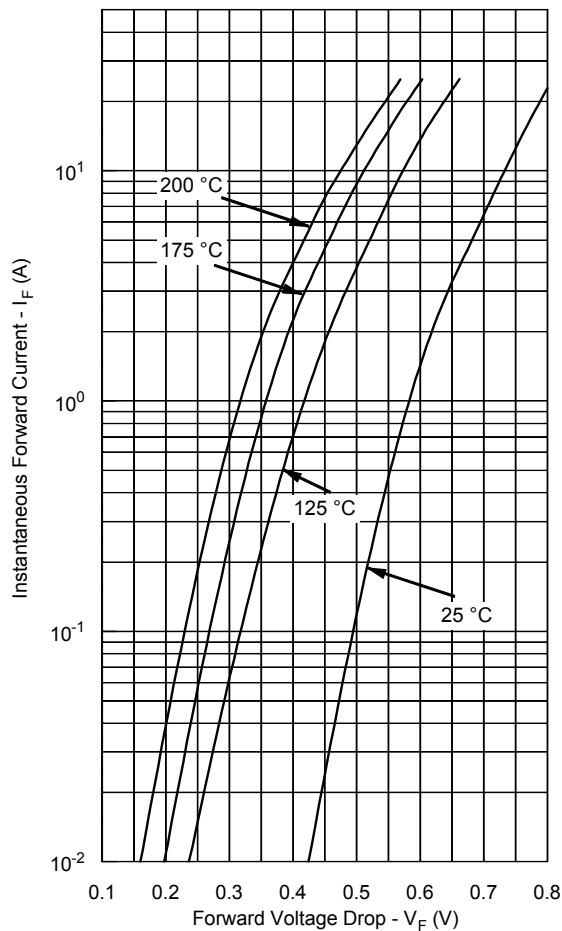
SHD-1



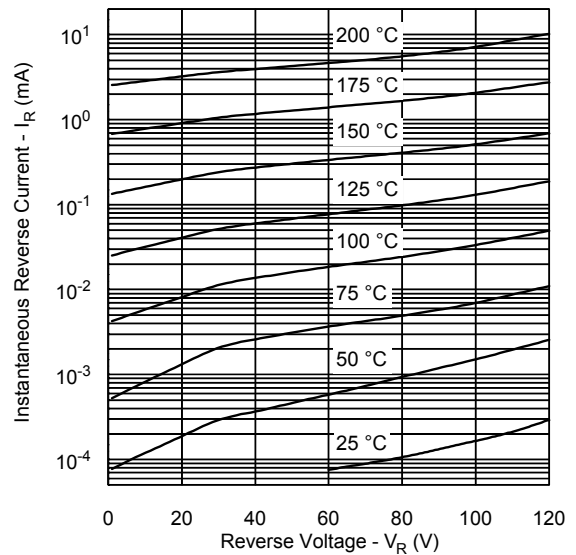
SHD-1B



Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance

