

TECHNICAL DATA
DATA SHEET 5569, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER
175°C Maximum Operation Temperature

DESCRIPTION: 150 VOLT, 30 AMP, POWER SCHOTTKY RECTIFIERS IN A HERMETIC SHD-2HP /2B HP PACKAGE.

MAXIMUM RATINGS

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

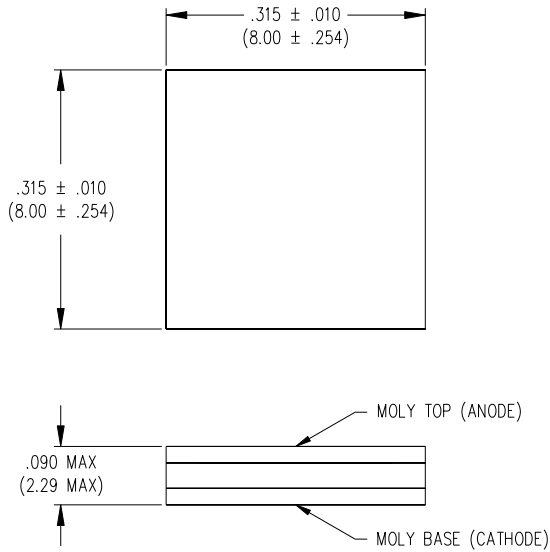
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	150	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C=100^\circ\text{C}$)	I_O	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t=10\text{ms}$, Sine)	I_{FSM}	570	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	1000	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	0.9	$^\circ\text{C/W}$
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to +175	$^\circ\text{C}$
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-65 to +175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

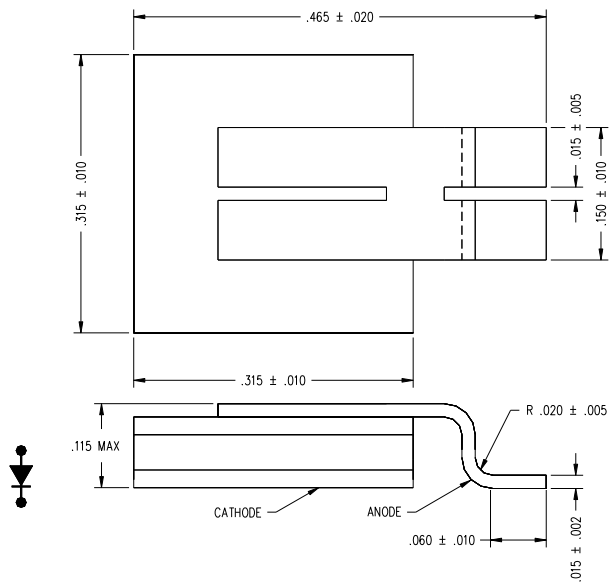
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (per leg, $I_f = 30$ Amps) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	0.84 0.68	Volts
MAXIMUM REVERSE CURRENT (per leg, I_r @ 150 V PIV) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	1.0 15	mA

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MECHANICAL DIMENSIONS: In Inches / mm

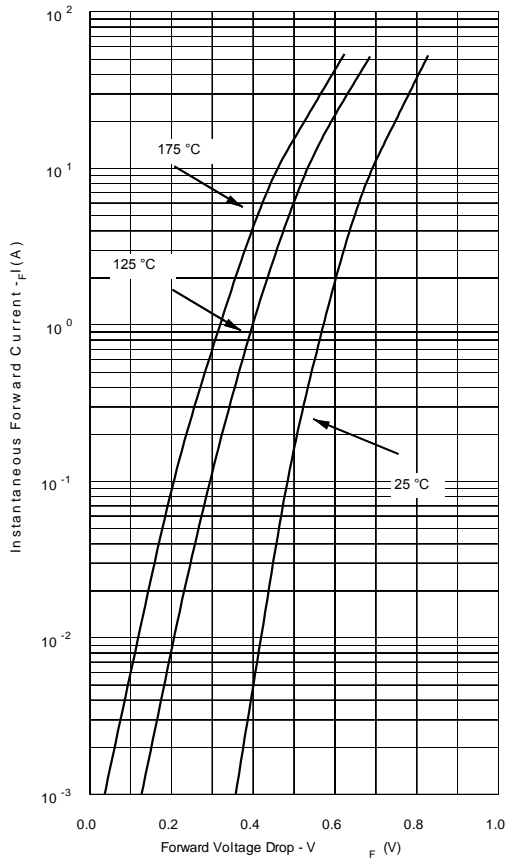


SHD-2 HP

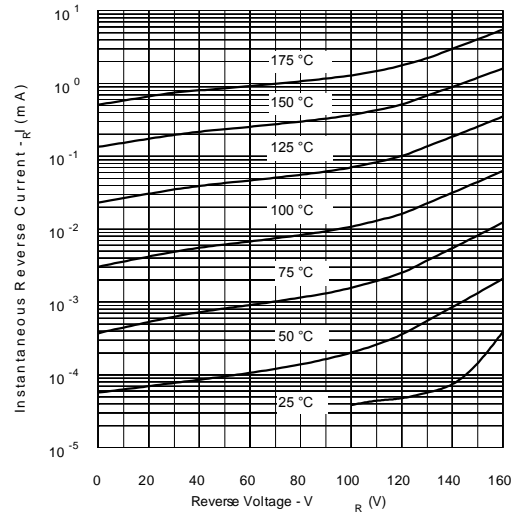


SHD-2B HP

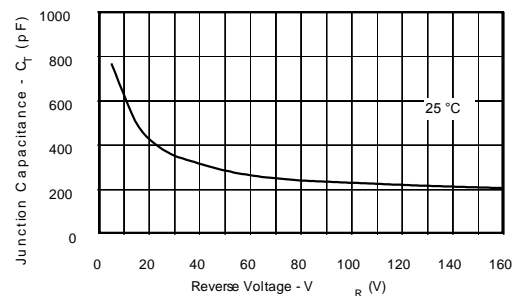
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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