TECHNICAL DATA
DATA SHEET 796, REV. A

POWER SCHOTTKY RECTIFIER
Very Low Voltage Drop

DESCRIPTION: A 60 VOLT, 30 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-2/2B PACKAGE.

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	60	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T_C=100 ^{O}C)	I_O	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I_{FSM}	300	Amps
MAXIMUM JUNCTION CAPACITANCE (V_r = 5V)	C_T	1600	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	0.5	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Top	-65 to + 150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I_f = 30 Amps)			
T_J = 25 °C	V_f	0.65	Volts
T_J = 125 °C		0.60	
MAXIMUM REVERSE CURRENT (I_r @ 60V PIV)			
T_J = 25 °C	I_r	4.0	mA
T_J = 125 °C		280	

SENSITRON
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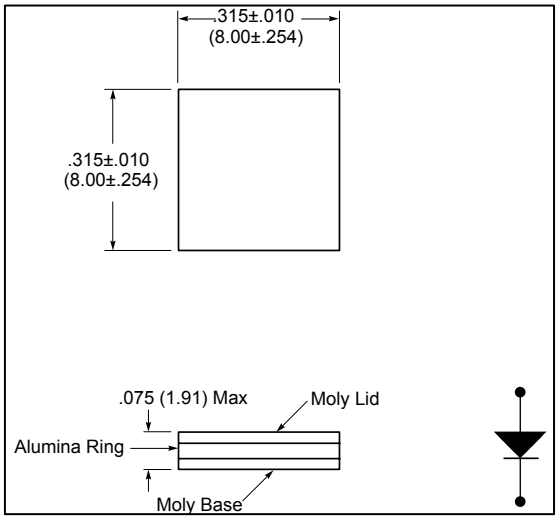
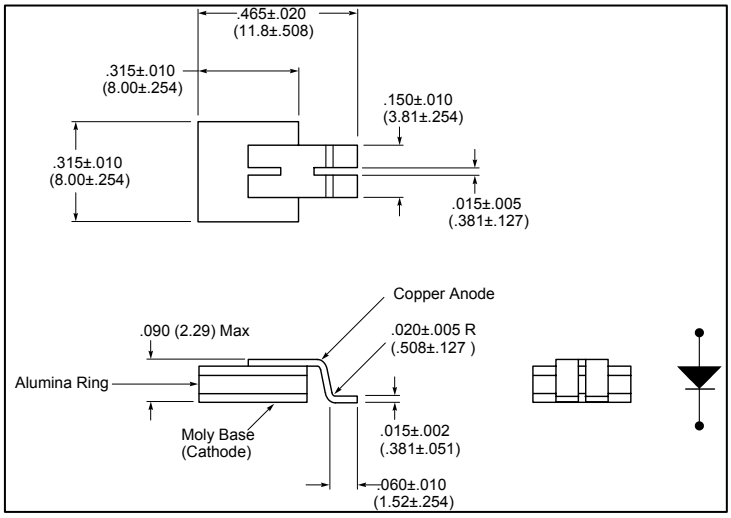
MECHANICAL DIMENSIONS: In Inches / mm



SHD-2



SHD-2B

PINOUT TABLE

TYPE	PIN 1 (Base)	PIN 2
SINGLE RECTIFIER	CATHODE	ANODE

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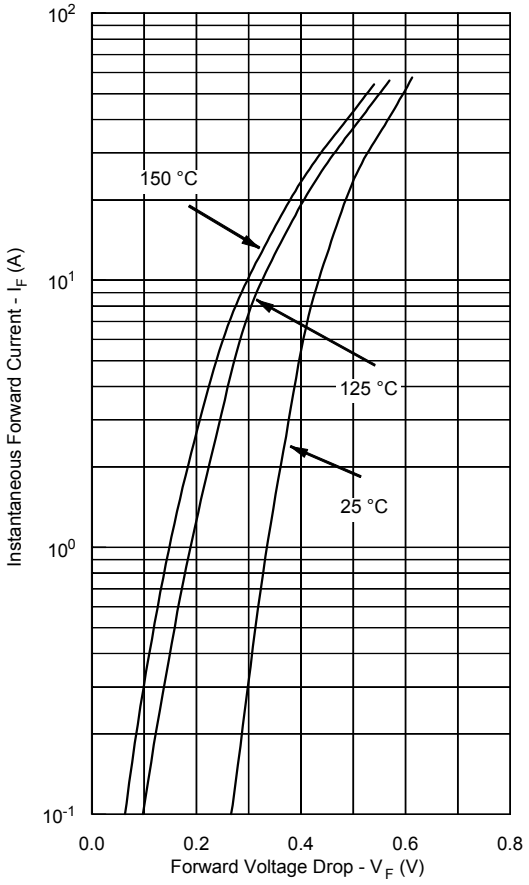
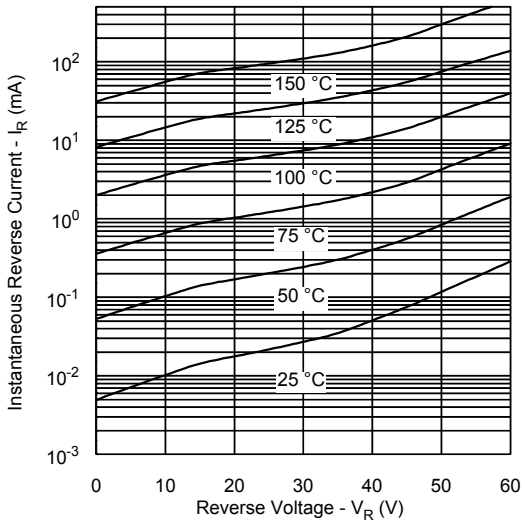
Vf curves shown are for SD175SA60.

Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance