TECHNICAL DATA
DATA SHEET 2034, REV. A

POWER SCHOTTKY RECTIFIER
Very Low Voltage Drop

DESCRIPTION: A 45 VOLT, 15 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	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T_C=100 ^{O}C)	I_O	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I_{FSM}	280	Amps
MAXIMUM JUNCTION CAPACITANCE (V_r=5V)	C_T	800	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	0.85	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

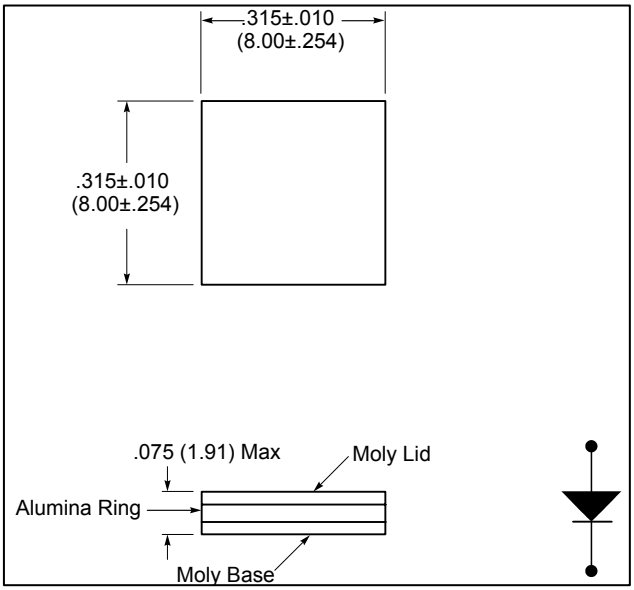
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I_f = 15 Amps)			
T_J = 25 °C	V_f	0.56	Volts
T_J = 125 °C		0.51	
MAXIMUM REVERSE CURRENT (I_r @ 45V)			
T_J = 25 °C	I_r	1.5	mA
T_J = 125 °C		70	

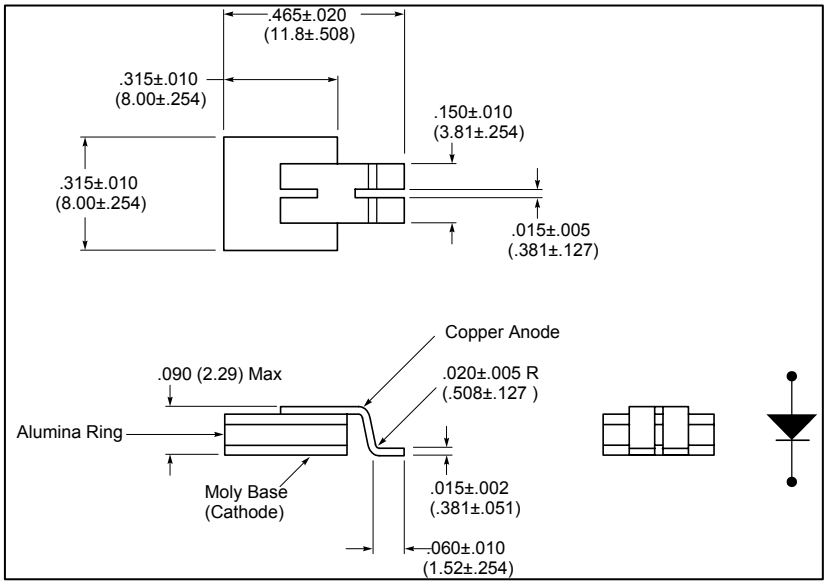
SENSITRON

DATA SHEET 2034, REV. A

MECHANICAL DIMENSIONS: In Inches / mm



SHD-2



SHD-2B

SENSITRON

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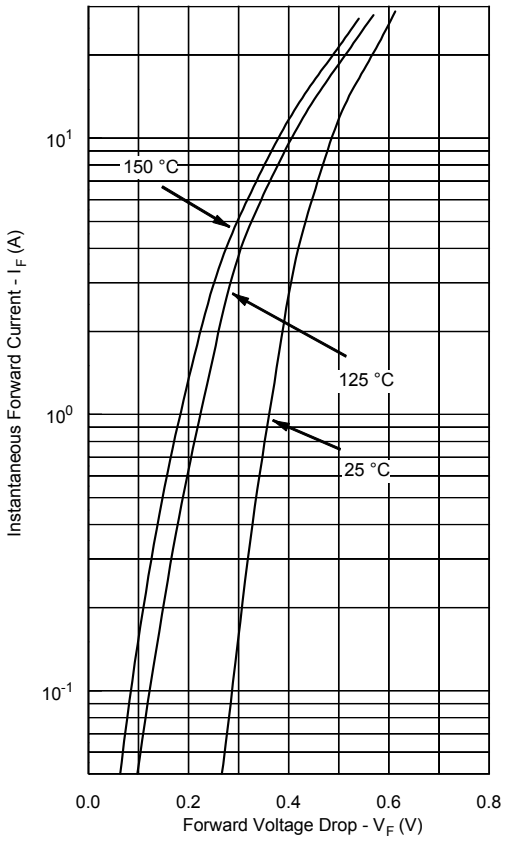
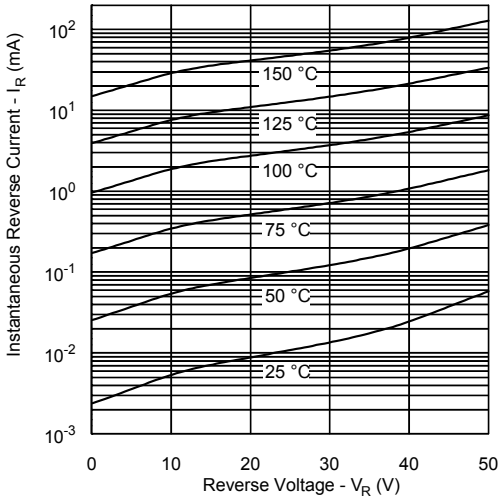
Note: V_F Curves are shown for die only.

Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance