

TECHNICAL DATA  
DATA SHEET 576, REV. A

**HERMETIC POWER SCHOTTKY RECTIFIER**  
**Very Low Forward Voltage Drop**

**DESCRIPTION:** 45 VOLT, 30 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-2/2B PACKAGE.

**MAXIMUM RATINGS**

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

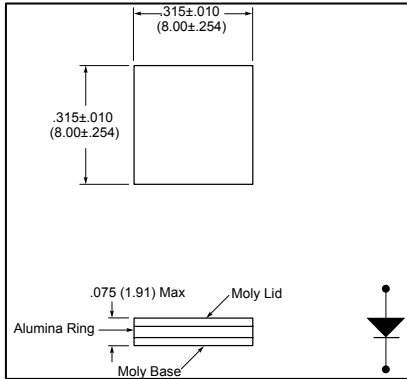
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C = 100^\circ\text{C}$ )	$I_O$	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ( $t = 8.3\text{ms}$ , Sine)	$I_{FSM}$	570	Amps
MAXIMUM JUNCTION CAPACITANCE ( $V_r = 5\text{V}$ )	$C_T$	1600	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	0.50	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	$T_{op}/T_{stg}$	-65 to +175	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS**

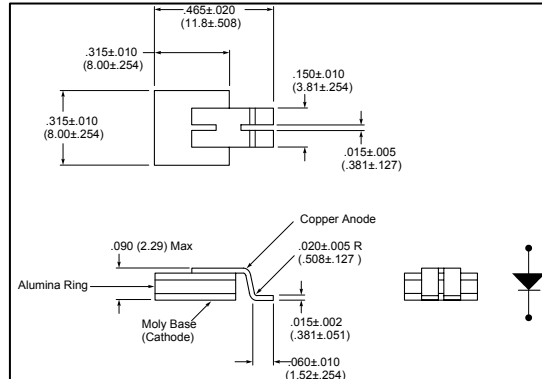
CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 30$ Amps)			
$T_J = 25^\circ\text{C}$	$V_f$	0.64	Volts
$T_J = 125^\circ\text{C}$		0.57	
MAXIMUM REVERSE CURRENT ( $I_r @ 45$ V PIV)			
$T_J = 25^\circ\text{C}$	$I_r$	0.8	mA
$T_J = 125^\circ\text{C}$		30	

**MECHANICAL DIMENSIONS: In Inches / mm**

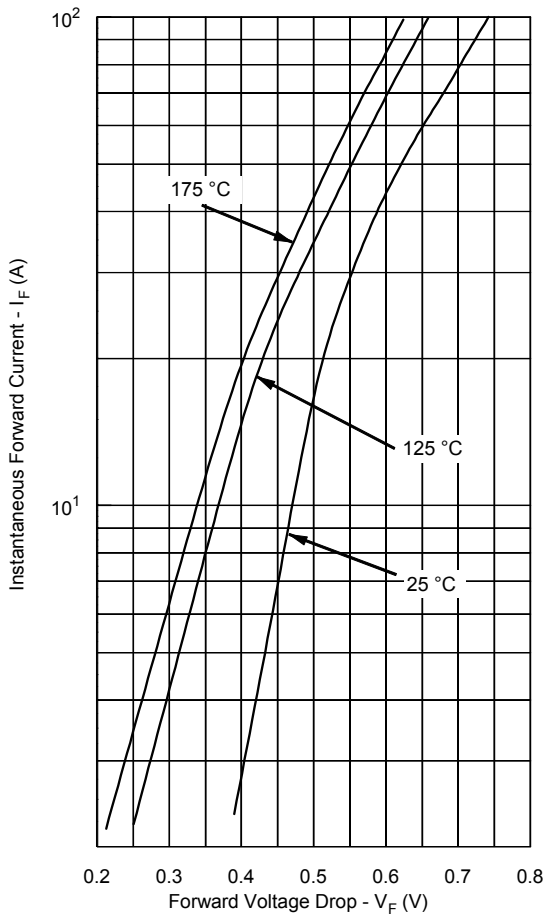
**SHD-2**



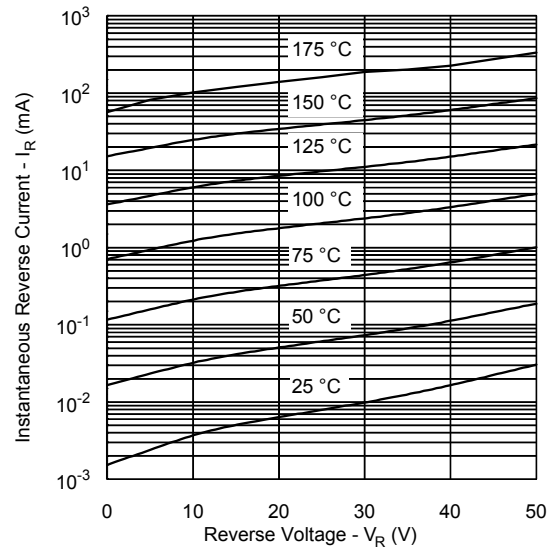
**SHD-2B**



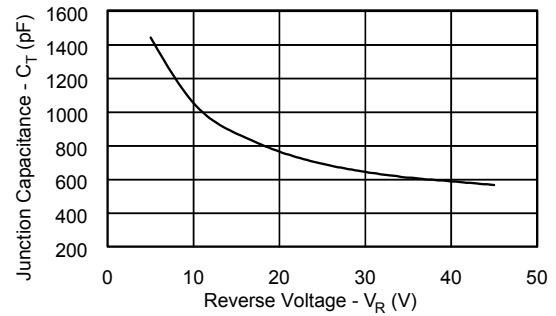
**Typical Forward Characteristics**



**Typical Reverse Characteristics**



**Typical Junction Capacitance**



**SENSITRON**  
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