

TECHNICAL DATA DATA SHEET 335, REV. C

POWER SCHOTTKY RECTIFIER Very Low Voltage Drop

DESCRIPTION: 30 VOLT, 15 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-1/1B PACKAGE.

MAXIMUM RATINGS

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	30	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 ^O C)	Io	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT	I _{FSM}	280	Amps
(t=8.3ms, Sine)			
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	1100	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	1.70	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

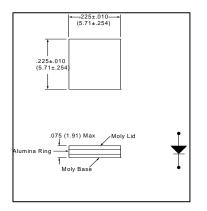
ELECTRICAL CHARACTERISTICS

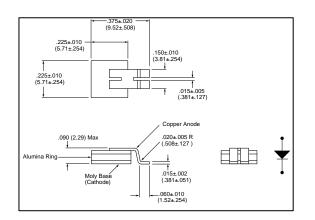
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 15 Amps)			
T _J = 25 °C	V_{f}	0.49	Volts
T _J = 125 °C	• 1	0.39	
MAXIMUM REVERSE CURRENT (I _r @ 30V PIV)			
T _J = 25 °C	l _r	2.0	mA
T _J = 125 °C		100	

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MECHANICAL DIMENSIONS: In Inches / mm

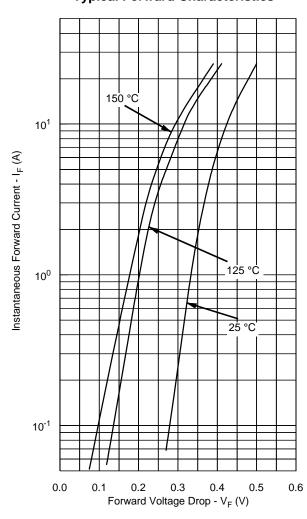
SHD-1



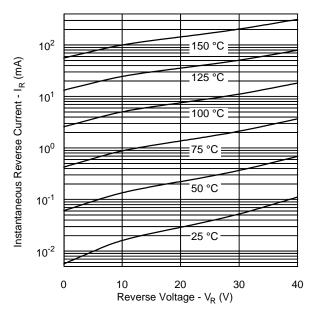


SHD-1B

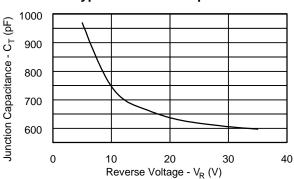
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



SENSITRON

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