TECHNICAL DATA
DATA SHEET 705, REV. B

HERMETIC POWER SCHOTTKY RECTIFIER
200°C Maximum Operation Temperature

DESCRIPTION: A 100 VOLT, 30 AMP, HERMETIC POWER SCHOTTKY RECTIFIER IN A SHD-3//3B PACKAGE.

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	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}	570	Amps
MAXIMUM JUNCTION CAPACITANCE (V_r =5V)	C_T	1200	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	0.9	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I_f = 30 Amps)			
T_J = 25 °C	V_f	0.84	Volts
T_J = 125 °C		0.68	
MAXIMUM REVERSE CURRENT (I_r @ 100 V PIV)			
T_J = 25 °C	I_r	0.75	mA
T_J = 125 °C		15	

SENSITRON

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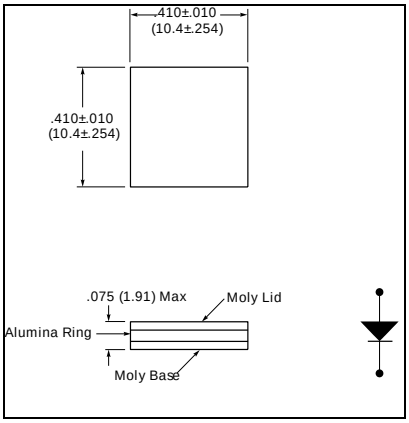
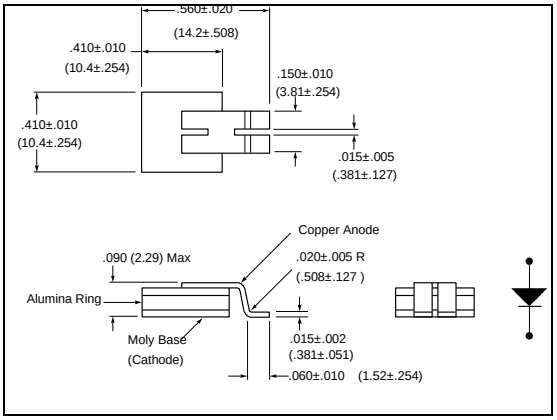
MECHANICAL DIMENSIONS: In Inches / mm

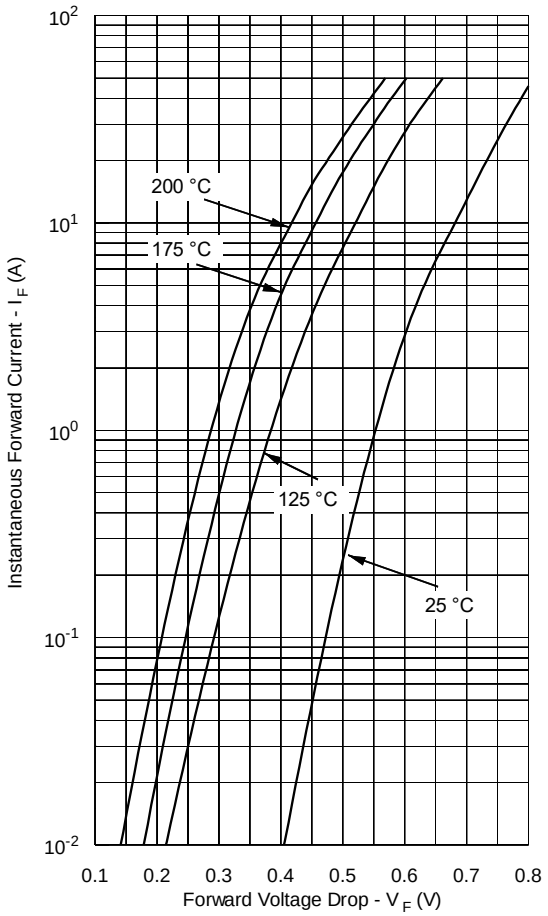


SHD-3

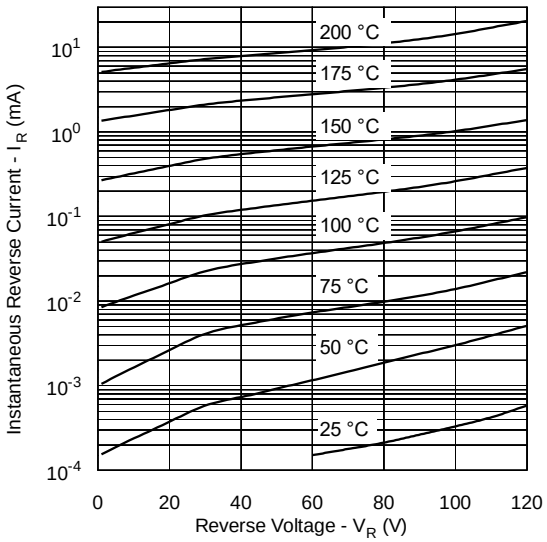


SHD-3B

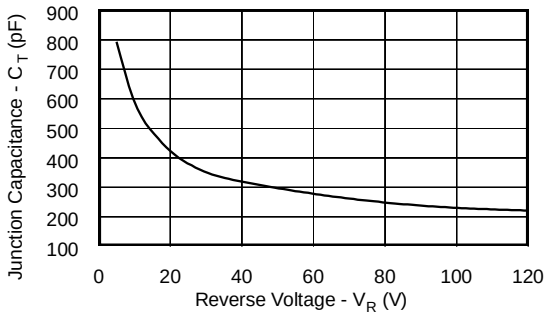
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



SENSITRON

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PART ORDERING INFORMATION:

SHD114444B XX X

Part Number

Screening Level (blank is no screening):

Suffix	Screened in Accordance with:
blank	No screening level
S	MIL-PRF-19500, TXV Level
SS	MIL-PRF-19500, S Level

QCI (blank is no QCI):

Suffix	Inspection in Accordance with:
blank	No QCI
Q	MIL-PRF-19500 QCI