TECHNICAL DATA DATA SHEET 620, REV. A

HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

 $\textbf{DESCRIPTION:}\ 100\ \text{VOLT},\ 30\ \text{AMP},\ \text{POWER}\ \text{SCHOTTKY}\ \text{RECTIFIERS}\ \text{IN}\ \text{A}\ \text{HERMETIC}\ \text{SHD-2}\ /\ 2B\ \text{PACKAGE}.$

MAXIMUM RATINGS

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

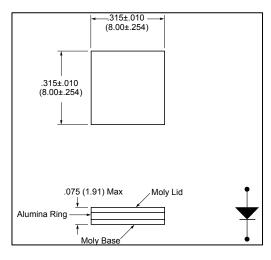
MAXIMUM TATINGS ARE @ 1c-25 C UNE	133 OTTILKWISE SPECIFIED.			
RATING	SYMBOL	MAX.	UNITS	
PEAK INVERSE VOLTAGE	PIV	100	Volts	
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 ^O C)	Io	30	Amps	
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=10ms, Sine)	I _{FSM}	570	Amps	
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	1000	pF	
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	0.5	°C/W	
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to +200	°C	

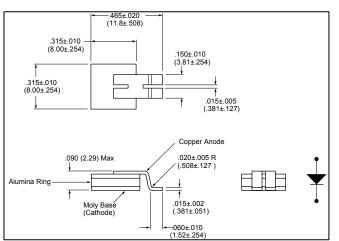
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (per leg, I _f = 30 Amps)			
T _J = 25 °C	V_{f}	0.84	Volts
T _J = 125 °C		0.68	
MAXIMUM REVERSE CURRENT (per leg, I _r @ 100 V PIV)			
T _J = 25 °C	l _r	0.75	mA
T _J = 125 °C		15	

SHD-2

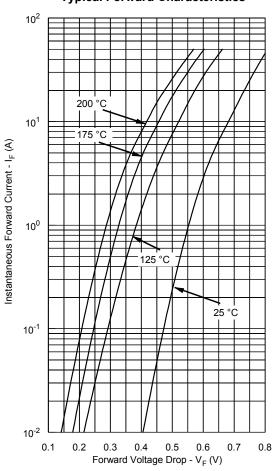
MECHANICAL DIMENSIONS: In Inches / mm



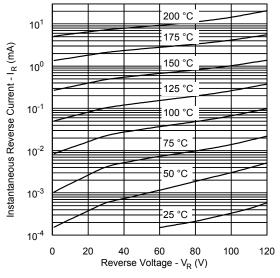


SHD-2B

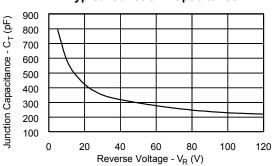
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



SHD115444 SHD115444B

SENSITRON

DATA SHEET 620, REV. A

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