TECHNICAL DATA DATASHEET 290, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER Ultra Low Reverse Leakage 200°C Operating Temperature

Applications:

• Switching Power Supply • Converters • Free-Wheeling Diodes • Polarity Protection Diode

Features:

- Ultra low Reverse Leakage Current
- Soft Reverse Recovery at Low and High Temperature
- Very Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capacity
- Guard Ring for Enhanced Durability and Long Term Reliability
- Guaranteed Reverse Avalanche Characteristics

MAXIMUM RATINGS

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE		100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 °C)		120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)		1650	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	3000	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	0.20	°C/W
MAXIMUM OPERATING JUNCTION TEMPERATURE RANGE		-65 to +200	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to +175	°C

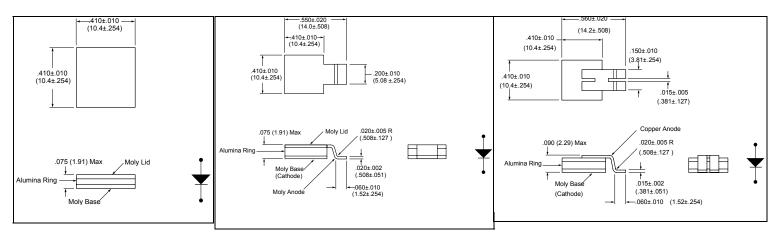
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
	mps) 25 °C V _f 125 °C	0.87 0.72	Volts
-	25 °C	0.60 6.0	mA

SENSITRON

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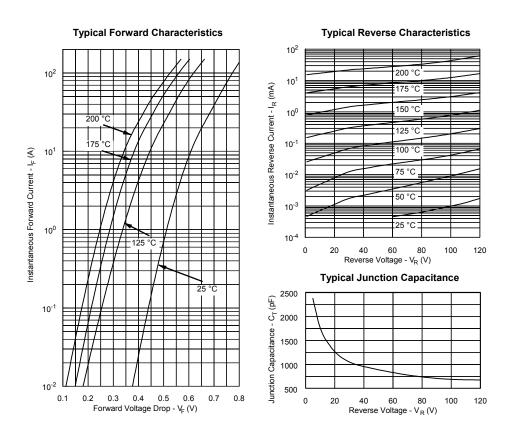
MECHANICAL DIMENSIONS: In Inches / mm



SHD-3A SHD-3B

PINOUT TABLE

TYPE	PIN 1 (Base)	PIN 2
SINGLE RECTIFIER	CATHODE	ANODE



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