TECHNICAL DATA DATA SHEET 296, REV. B

# HERMETIC POWER SCHOTTKY RECTIFIER Ultra Low Reverse Leakage

**DESCRIPTION:** A 100 VOLT, 60 AMP, DUAL POWER SCHOTTKY RECTIFIERS IN A HERMETIC SHD-5 / 5A / 5B PACKAGE.

### **MAXIMUM RATINGS**

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE		100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T <sub>C</sub> =100 <sup>O</sup> C)		120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT		860	Amps
(t=8.3ms, Sine)			
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	Ст	1500	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)		0.35	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to +200	°C

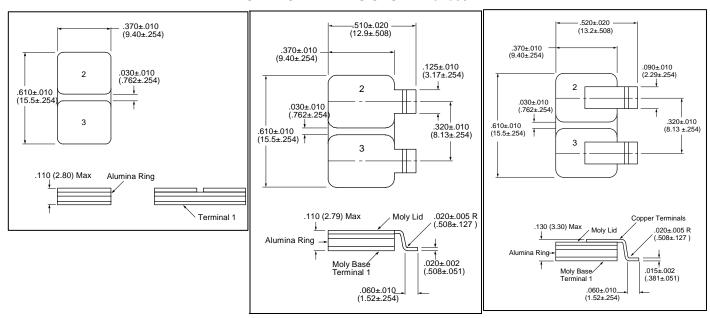
## **ELECTRICAL CHARACTERISTICS**

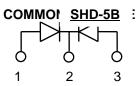
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (per leg, I <sub>f</sub> = 60 Amps)			
T <sub>J</sub> = 25 °C	$V_{f}$	0.87	Volts
T <sub>J</sub> = 125 °C		0.72	
MAXIMUM REVERSE CURRENT (per leg, I <sub>r</sub> @ 100 V PIV)			
T <sub>J</sub> = 25 °C	l <sub>r</sub>	0.3	mA
T <sub>J</sub> = 125 °C		3.0	

# **SENSITRON**

## DATA SHEET 296, REV. B

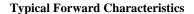
## **MECHANICAL DIMENSIONS: In Inches / mm**



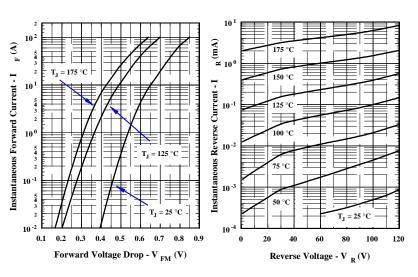


#### **PINOUT TABLE**

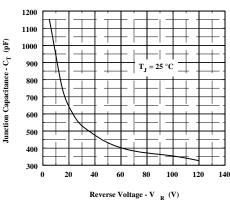
DEVICE TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, COMMON CATHODE (P)	COMMON CATHODE	ANODE	ANODE



## **Typical Reverse Characteristics**



## **Typical Junction Capacitance**



#### **SENSITRON**

## **DATA SHEET 296, REV. B**

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