

TECHNICAL DATA DATA SHEET 4032, REV. E

# HERMETIC SCHOTTKY POWER RECTIFIER Low Voltage Drop

**DESCRIPTION:** A 45-VOLT, 7.5 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-1/1A/1B PACKAGE.

## **MAXIMUM RATINGS**

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

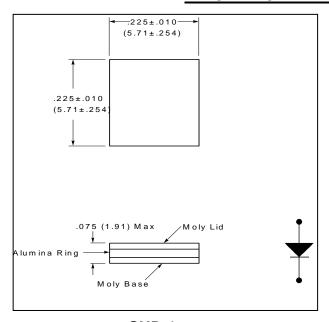
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T <sub>c</sub> =100 °C)		7.5	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT		140	Amps
(t = 8.3ms, Sine)			
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> = 5V)	C <sub>T</sub>	400	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	3.2	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE		-65 to + 175	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 175	°C

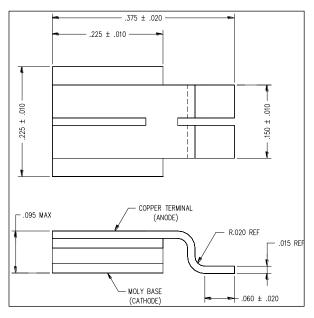
### **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> = 7.5 Amps)			
T <sub>J</sub> = 25 °C	$V_{f}$	0.64	Volts
T <sub>J</sub> = 125 °C	• 1	0.57	
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 45V PIV)			
T <sub>J</sub> = 25 °C	l <sub>r</sub>	0.2	mA
T <sub>J</sub> = 125 °C		7.5	

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

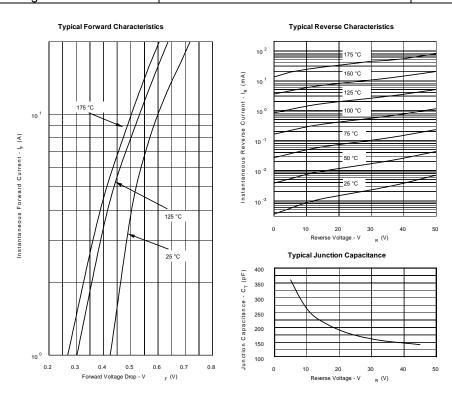




SHD-1B

## **PINOUT TABLE**

TYPE	PIN 1 (Base)	PIN 2
SINGLE RECTIFIER	CATHODE	ANODE
in a Surface Mount Package		



 $V_F @ 1A -55^{\circ}C \text{ typical} = 0.52V$ 

#### **SENSITRON**

# TECHNICAL DATA DATA SHEET 4032, REV. D

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