

TECHNICAL DATA DATA SHEET 4579, REV. –

# HERMETIC POWER SCHOTTKY RECTIFIER Low Forward Voltage Drop

Add Suffix "S" to Part Number for S-100 Screening.

## **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
- High Surge Capacity
- Guard Ring for Enhanced Durability and Long Term Reliability

**DESCRIPTION:** A 15-VOLT, 30 AMP DUAL POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-4/4A/4B PACKAGE.

### **MAXIMUM RATINGS**

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	15	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T <sub>C</sub> =70 °C)	Io	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I <sub>FSM</sub>	280	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	0.40	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-65 to + 100	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 100	°C

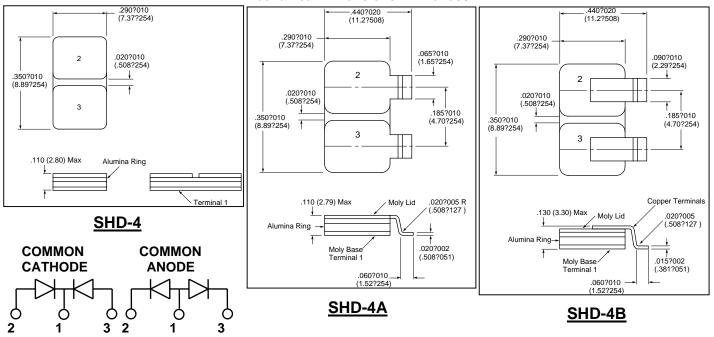
# **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> = 15 Amps)			
$T_J = 25  ^{\circ}\text{C}$ $T_J = 75  ^{\circ}\text{C}$	$V_{f}$	0.37 0.33	Volts
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 15V PIV)			
T <sub>J</sub> = 25 °C T <sub>J</sub> = 100 °C	I <sub>r</sub>	7 340	mA
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	Ст	1200	pF

### **SENSITRON**

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## Mechanical Dimensions: In Inches / mm



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



#### **TECHNICAL DATA**

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