

TECHNICAL DATA DATA SHEET 4566, REV. –

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# 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 200-VOLT, 6.0 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	200	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T <sub>C</sub> =100 <sup>O</sup> C)	Io	6.0	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I <sub>FSM</sub>	55	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	1.8	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-65 to + 200	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 200	°C

## **ELECTRICAL CHARACTERISTICS**

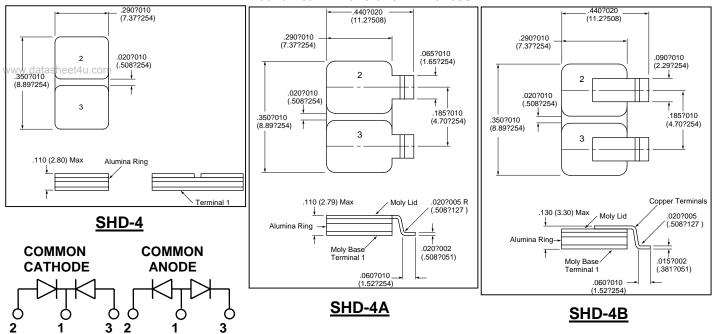
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> = 3.0 Amps)			
$T_J = 25  ^{\circ}\text{C}$ $T_J = 125  ^{\circ}\text{C}$	$V_{f}$	0.92 0.76	Volts
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 200V PIV)			
$T_J = 25  ^{\circ}\text{C}$ $T_J = 125  ^{\circ}\text{C}$	l <sub>r</sub>	0.003 0.2	mA
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	$C_T$	60	pF

#### **SENSITRON**

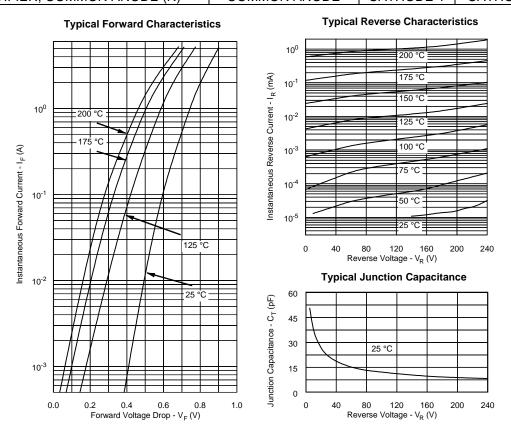
**PINOUT TABLE** 

### DATA SHEET 4566, REV. -

#### Mechanical Dimensions: In Inches / mm



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



 $V_F$  @ 1A -55°C typical = 0.56V



#### **TECHNICAL DATA**

www.data

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