

TECHNICAL DATA DATA SHEET 4571, 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 45-VOLT, 15 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 | 45 | Volts |
| MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 °C) | Io | 15 | Amps |
| MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine) | I _{FSM} | 140 | Amps |
| MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode) | $R_{	heta JC}$ | 0.85 | °C/W |
| MAXIMUM OPERATING TEMPERATURE RANGE | | -65 to + 175 | °C |
| MAXIMUM STORAGE TEMPERATURE RANGE | Top/Tstg | -65 to + 175 | °C |

ELECTRICAL CHARACTERISTICS

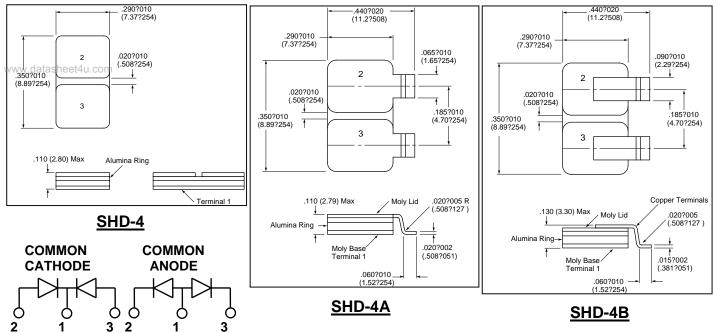
| CHARACTERISTIC | SYMBOL | MAX. | UNITS |
|--|-------------------|--------------|-------|
| MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 7.5 Amps) | | | |
| T _J = 25 °C T _J = 125 °C | V_{f} | 0.64 0.57 | Volts |
| MAXIMUM REVERSE CURRENT (I _r @ 45V PIV) | | | |
| T _J = 25 °C T _J = 125 °C | l _r | 0.2 7.5 | mA |
| MAXIMUM JUNCTION CAPACITANCE (V _r =5) | V) C _T | 400 | pF |

SENSITRON

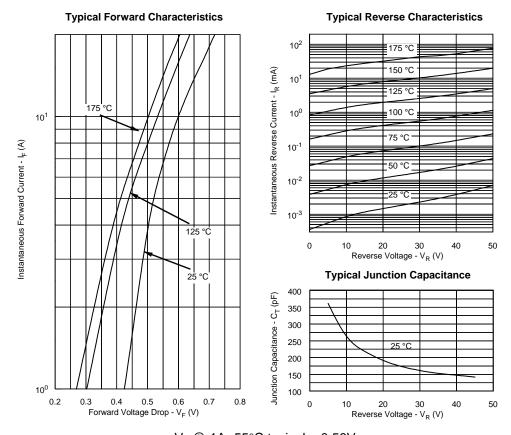
PINOUT TABLE

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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

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