TECHNICAL DATA DATA SHEET 4572, 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 100-VOLT, 15 AMP DUAL POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-4/4A/4B PACKAGE.

MAXIMUM RATINGS ARE @ T <sub>c</sub> = 25 °C UNLI	ALL RATINGS ARE @ Tc = 25 °C UNLESS OTHERWISE SPECIFIED.				
RATING	SYMBOL	MAX.	UNITS		
PEAK INVERSE VOLTAGE	PIV	100	Volts		
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c$ =100 $^{\circ}$ C)	Ι <sub>Ο</sub>	15	Amps		
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I <sub>FSM</sub>	140	Amps		
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ ext{ heta}JC}$	0.85	°C/W		
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-65 to + 200	°C		
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 200	°C		

## **ELECTRICAL CHARACTERISTICS**

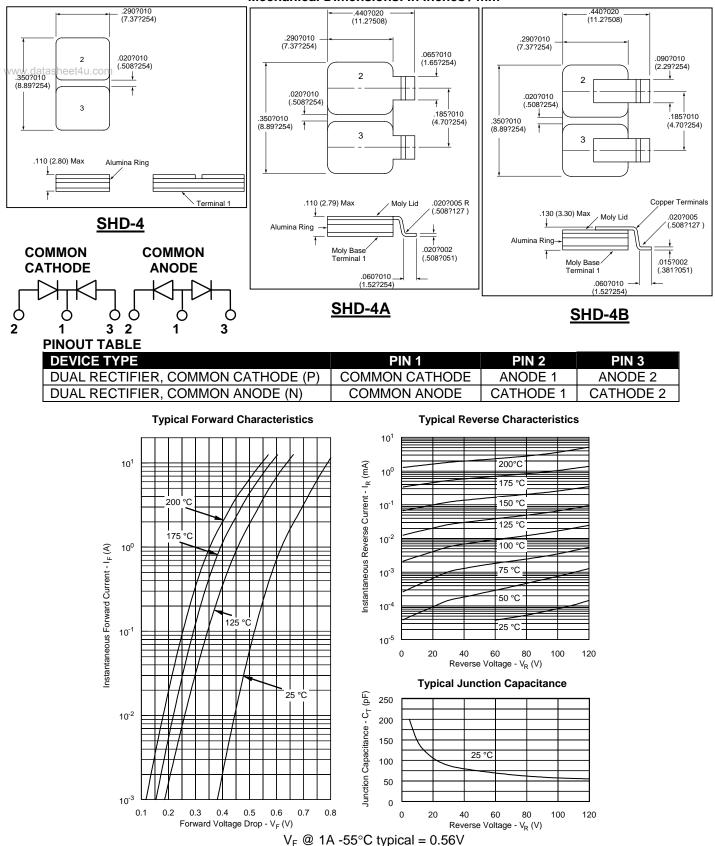
CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 7.5 \text{ Amps}$ )				
$T_{J} = 25 \text{ °C}$ $T_{J} = 125 \text{ °C}$		V <sub>f</sub>	0.84 0.68	Volts
MAXIMUM REVERSE CURRENT (Ir @ 100V PIV)				
$T_J = 25 \text{ °C}$ $T_J = 125 \text{ °C}$		l <sub>r</sub>	0.01 0.5	mA
MAXIMUM JUNCTION CAPACITANCE	(V <sub>r</sub> =5V)	C <sub>T</sub>	250	pF

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#### SHD117134(P/N) SHD117134(P/N)A SHD117134(P/N)B

#### SENSITRON DATA SHEET 4572, REV. -

Mechanical Dimensions: In Inches / mm



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