

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_C =70 $^{\circ}$ C)	Io	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	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

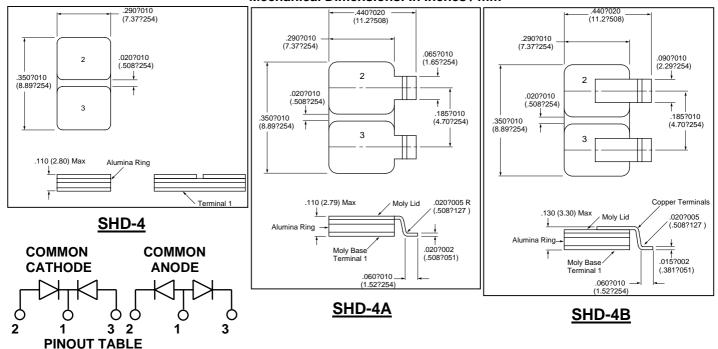
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 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 _r @ 15V PIV)			
$T_J = 25$ °C $T_J = 100$ °C	I _r	7 340	mA
MAXIMUM JUNCTION CAPACITANCE (V _r =5V) C _T	1200	pF

SENSITRON

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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



TECHNICAL DATA

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