

TECHNICAL DATA DATA SHEET 4563, REV. –

HERMETIC POWER SCHOTTKY RECTIFIER

Very 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 30-VOLT, 3.0 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	30	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T_C =100 $^{\circ}$ C) (Single)	lo	3.0	Amps
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ T _C =100 °C)	Io	6.0	Amps
(Common Cathode)			
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	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 + 150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS

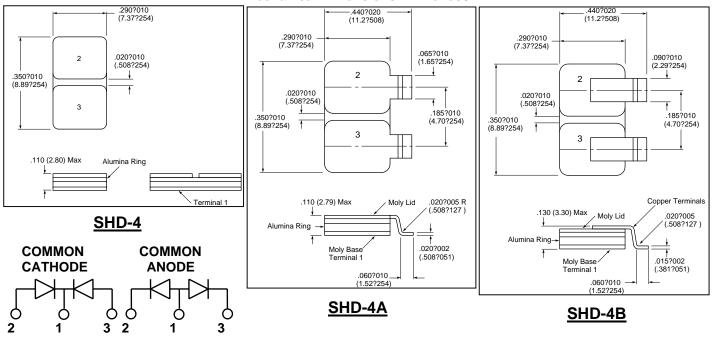
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 3.0 Amps)			
T _J = 25 °C T _J = 125 °C	V_{f}	0.49 0.39	Volts
MAXIMUM REVERSE CURRENT (I _r @ 30V PIV)			
T _J = 25 °C T _J = 125 °C	I _r	0.4 20	mA
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	220	pF

SENSITRON

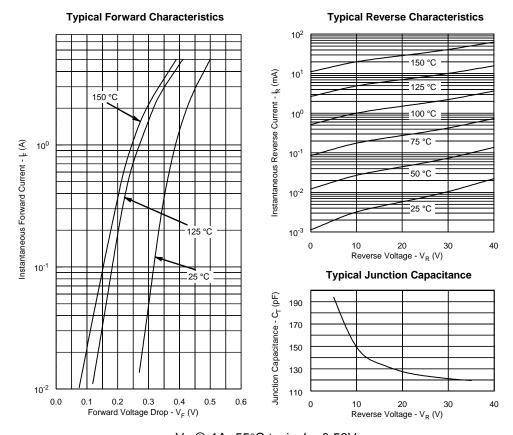
PINOUT TABLE

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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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