

TECHNICAL DATA DATA SHEET 4063, 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 45-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.

ALL NATINGS ARE @ 16 = 25 CONLESS OTHERWISE SPECIFIED.			
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 ^O C)	Io	3.0	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	55	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ hetaJC}$	2.2	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE		-65 to + 175	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

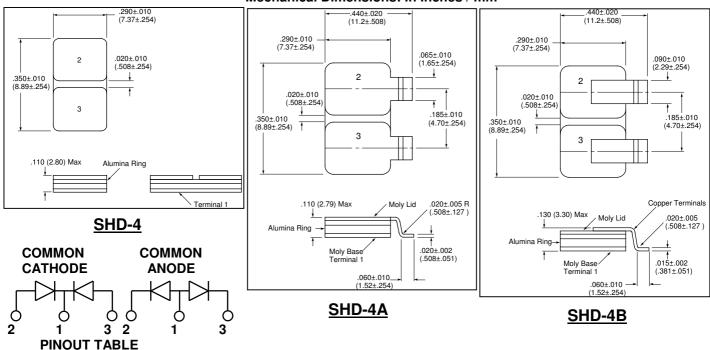
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 3.0 Amps)			
$T_J = 25 ^{\circ}\text{C}$ $T_J = 125 ^{\circ}\text{C}$	V _f	0.64 0.57	Volts
MAXIMUM REVERSE CURRENT (I, @ 45V PIV)			
$T_J = 25 ^{\circ}\text{C}$ $T_J = 125 ^{\circ}\text{C}$	l _r	0.08 3.0	mA
MAXIMUM JUNCTION CAPACITANCE (V _r =5V) C _T	160	pF

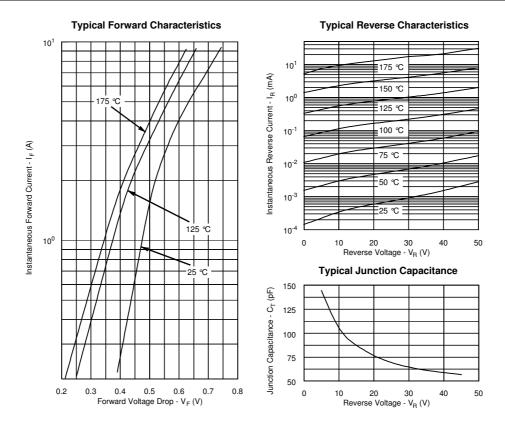
SENSITRON

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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



 $V_F @ 1A -55^{\circ}C \text{ typical} = 0.56V$



TECHNICAL DATA

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