

TECHNICAL DATA DATA SHEET 1069, REV. PRELIMINARY

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# HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

Add Suffix "S" to Part Number for S-100 Screening.

**DESCRIPTION:** A 100 VOLT, 3 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-4 / SHD-4A / SHD-4B PACKAGE.

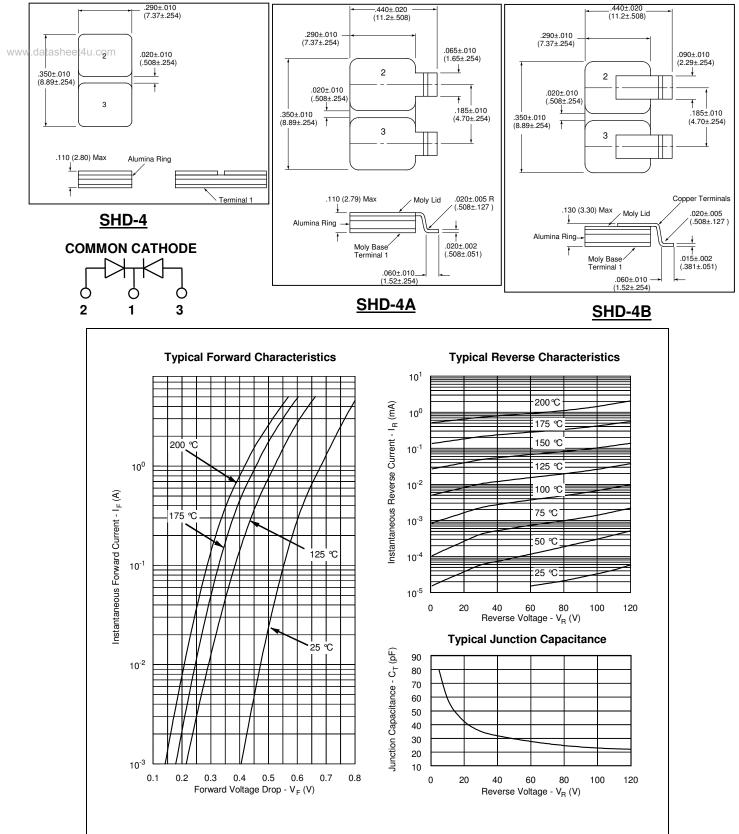
MAXIMUM RATINGS ARE @ T <sub>c</sub> = 25 °C UN	TINGS ARE @ T <sub>c</sub> = 25 °C UNLESS OTHERWISE SPECIFIED.			
RATING	SYMBOL	MAX.	UNITS	
PEAK INVERSE VOLTAGE	PIV	100	Volts	
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_{C}$ =100 $^{\circ}$ C)	Ι <sub>Ο</sub>	6.0	Amps	
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT	I <sub>FSM</sub>	55	Amps	
(t=8.3ms, Sine) (PER LEG)				
MAXIMUM JUNCTION CAPACITANCE ( $V_r = 5V$ ) (PER LEG)	C <sub>T</sub>	100	pF	
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ ext{ heta}JC}$	1.8	°C/W	
MAXIMUM OPERATING TEMPERATURE RANGE	Тор	-65 to + 200	°C	
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 175	°C	

# **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 3.0 \text{ Amps}$ ) (PER LEG)			
T <sub>J</sub> = 25 °C	V <sub>f</sub>	0.84	Volts
T <sub>J</sub> = 125 °C	•1	0.68	
MAXIMUM REVERSE CURRENT (Ir @ 100V PIV) (PER LEG)			
T <sub>J</sub> = 25 °C	l <sub>r</sub>	0.07	mA
T <sub>J</sub> = 125 °C		1.6	

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**MECHANICAL DIMENSIONS:** in inches / mm



### **TECHNICAL DATA**

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