

TECHNICAL DATA
DATA SHEET 1072, REV. PRELIMINARY

HERMETIC POWER SCHOTTKY RECTIFIER

DESCRIPTION: A 30 VOLT, 15 AMP, POWER SCHOTTKY RECTIFIER IN A SURFACE MOUNT 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 ^O C)	Io	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (PER LEG)	I _{FSM}	140	Amps
(t=8.3ms, Sine)			
MAXIMUM JUNCTION CAPACITANCE (V _r =5V) (PER LEG)	Ст	550	рF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	0.85	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

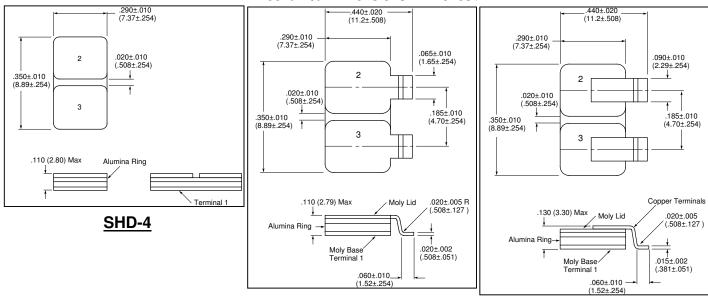
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 7.5 Amps) (PER LEG)			
T _J = 25 °C	V_{f}	0.49	Volts
T _J = 125 °C	- 1	0.39	
MAXIMUM REVERSE CURRENT (I _r @ 30V PIV) (PER LEG)			
T _J = 25 °C	l _r	1.0	mA
T _J = 125 °C		50	

SHD-4B

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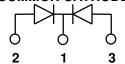
Mechanical Dimensions: In Inches / mm



SHD-4A

SCHEMATIC

COMMON CATHODE



PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, COMMON CATHODE (P)	COMMON CATHODE	ANODE 1	ANODE 2



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