

TECHNICAL DATA DATA SHEET 631, REV. A

HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

DESCRIPTION: 100 VOLT, 7.5 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-4/4A/4B PACKAGE.

MAXIMUM RATINGS

ALL RATINGS ARE @ $T_C = 25\,^{\circ}\text{C}$ UNLESS OTHERWISE SPECIFIED.

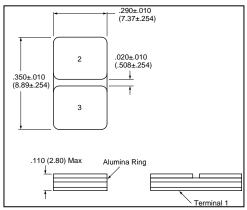
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 ^O C)	Io	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (PER LEG)	I _{FSM}	140	Amps
(t=8.3ms, Sine)			
MAXIMUM JUNCTION CAPACITANCE (V _r =5V) (PER LEG)	C _T	250	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	0.9	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

ELECTRICAL CHARACTERISTICS

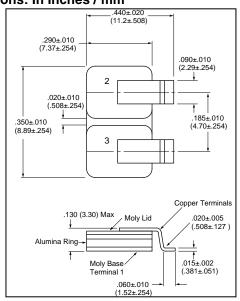
CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 7.5 Amps) (PER LEG)			
T _J = 25 °C	V_{f}	0.84	Volts
T _J = 125 °C	- 1	0.68	
MAXIMUM REVERSE CURRENT (I _r @ 100V PIV) (PER LEG)			
T _J = 25 °C	I _r	0.18	mA
T _J = 125 °C		4.0	

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Mechanical Dimensions: In Inches / mm

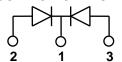


SHD-4



SHD-4B

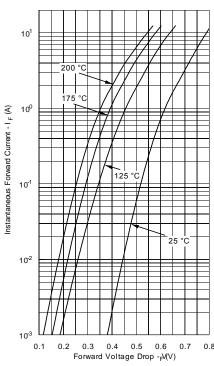
COMMON CATHODE



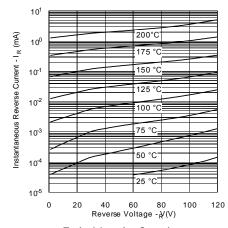
PINOUT TABLE

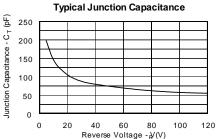
TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, COMMON CATHODE (P)	COMMON CATHODE	ANODE 1	ANODE 2





Typical Reverse Characteristics





SENSITRON

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