

TECHNICAL DATA DATA SHEET 630, REV. C

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Voltage Drop

DESCRIPTION: 45 VOLT, 3.0 AMP, POWER SCHOTTKY RECTIFIER IN A SHD-1/1B PACKAGE.

MAXIMUM RATINGS

ALL RATINGS ARE @ T_C = 25 °C UNLESS OTHERWISE SPECIFIED.

RATING / CONDITION	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	I _{FSM}	55	Amps
(t=8.3ms, Sine)			
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	Ст	160	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	7.07	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS

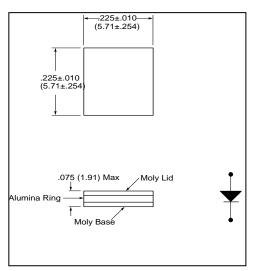
CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 3.0 Amps)			
T _J = 25 °C	V_{f}	0.56	Volts
T _J = 125 °C	- 1	0.51	
MAXIMUM REVERSE CURRENT (I _r @ 45V PIV)			
T _J = 25 °C	I _r	0.3	mA
T _J = 125 °C		14	

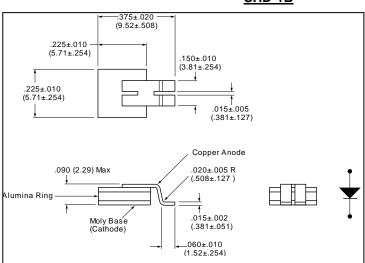
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MECHANICAL DIMENSIONS: In Inches / mm

SHD-1B

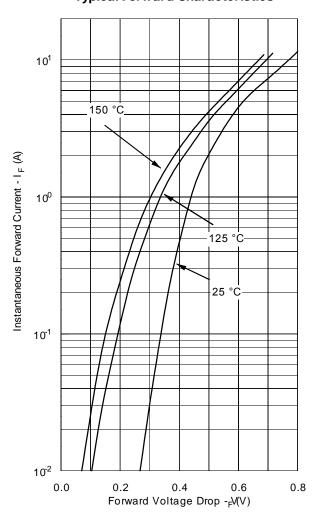
SHD-1

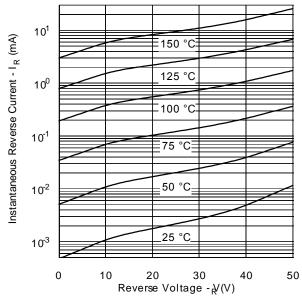


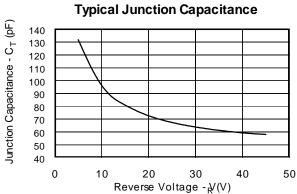


Typical Forward Characteristics

Typical Reverse Characteristics







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