TECHNICAL DATA
DATA SHEET 4624, REV. A.1

HERMETIC POWER SCHOTTKY RECTIFIER

(SINGLE / DUAL)

DESCRIPTION: A 45 VOLT, 30 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SMD-1 PACKAGE.

MAXIMUM RATINGS

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ T_C=100 °C) (Single)	I_O	30	Amps
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ T_C=100 °C) (Common Cathode)	I_O	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I_{FSM}	200	Amps
MAXIMUM JUNCTION CAPACITANCE (V_r=5V)	C_T	1600	pF
MAXIMUM THERMAL RESISTANCE	$R_{\theta JC}$	1.38	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I_f = 30 Amps)			
T_J = 25 °C	V_f	0.73	Volts
T_J = 125 °C		0.66	
MAXIMUM REVERSE CURRENT (I_r @ 45 V PIV)			
T_J = 25 °C	I_r	0.8	mA
T_J = 125 °C		30	

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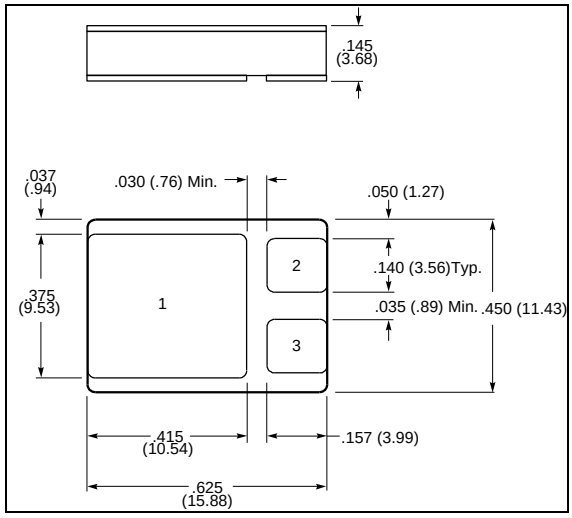
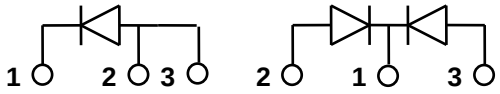
MECHANICAL DIMENSIONS: IN Inches / mm



SINGLE **COMMON CATHODE**

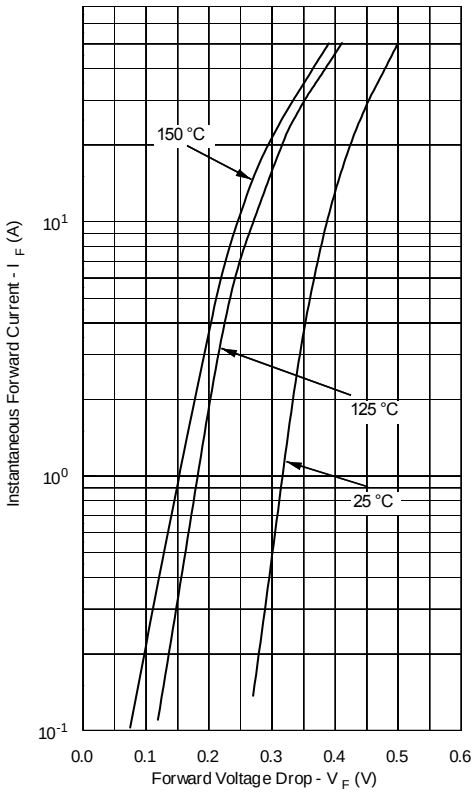


SMD-1

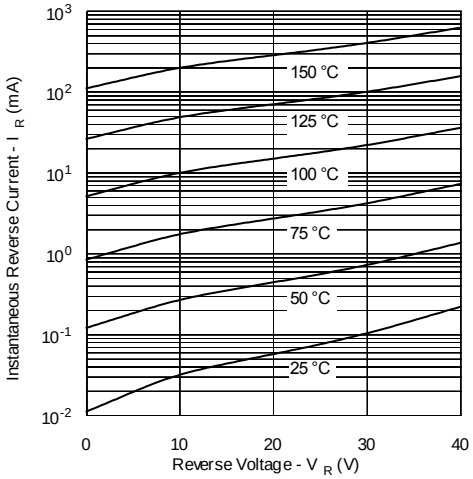
PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
COMMON CATHODE	COMMON CATHODE	ANODE 1	ANODE 2

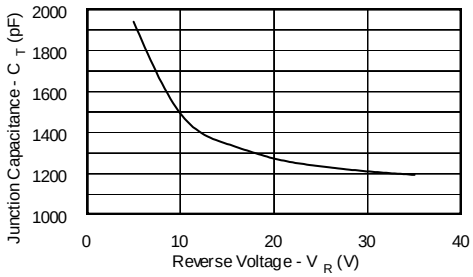
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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