

TECHNICAL DATA DATA SHEET 5217, REV. B

HERMETIC POWER SCHOTTKY RECTIFIER

DESCRIPTION: A 45 VOLT, 30 AMP POWER SCHOTTKY RECTIFIER IN A SMD-0.5 PACKAGE.

MAXIMUM RATINGS

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

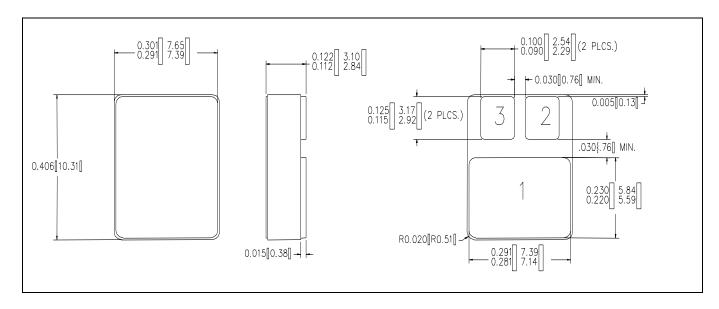
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (50% duty cycle) (T _C = 100 °C)	Io	30	Amps
MAXIMUM NON-REPETITIVE FORWORD SURGE CURRENT (t = 8.3ms, Sine)	I _{FSM}	270	Amps
JUNCTION CAPACITANCE V _R = 5Vdc, f = 1MHz	C _T	1230	pF
MAXIMUM THERMAL RESISTANCE	$R_{ heta JC}$	1.8	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	T _{op}	-55 to +150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	T _{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP (per leg, I _F = 15A)			
T _J = 25 °C	V_{f}	0.53	Volts
T _J = 125 °C		0.48	Volts
MAXIMUM REVERSE CURRENT I, @ PIV (per leg, I, @ 45V PIV)			
T _J = 25 °C	l _r	0.4 120	mA mA
T _J = 125 °C		.20	1111

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MECHANICAL DIMENSIONS: In Inches / mm

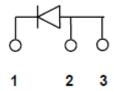


SMD-0.5

PINOUT TABLE

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

SINGLE



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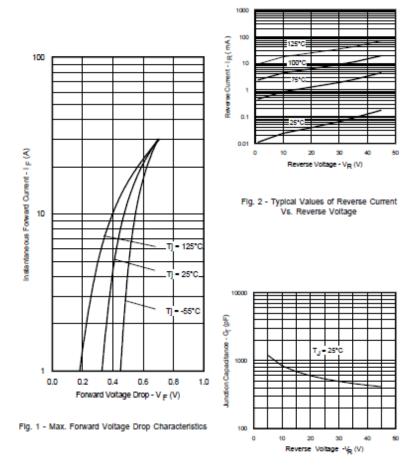


Fig. 3 - Typical Junction Capacitance Vs. Reverse Voltage

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