TECHNICAL DATA
DATA SHEET 1190, REV. B

HERMETIC POWER SCHOTTKY RECTIFIER

DESCRIPTION: A 60-VOLT, 30 AMP, POWER SCHOTTKY RECTIFIER IN A CERAMIC HERMETIC LCC-5 PACKAGE.

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	60	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T_C=77 ^{O}C, 50% duty cycle)	I_O	30	Amps
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine) per leg	I_{FSM}	120	Amps
MAXIMUM JUNCTION CAPACITANCE (V_r=5V) per leg (TYP)	C_T	400	pF
MAXIMUM THERMAL RESISTANCE, Junction to Case (PER LEG)	$R_{\theta JC}$	5.0	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Top	-55 to + 150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I_f = 15 Amps) (PER LEG)			
T_J = 25 °C	V_f	1.00	Volts
T_J = 125 °C		0.88	
MAXIMUM REVERSE CURRENT (I_r @ 60V PIV) (PER LEG)			
T_J = 25 °C	I_r	0.2	mA
T_J = 125 °C		15	

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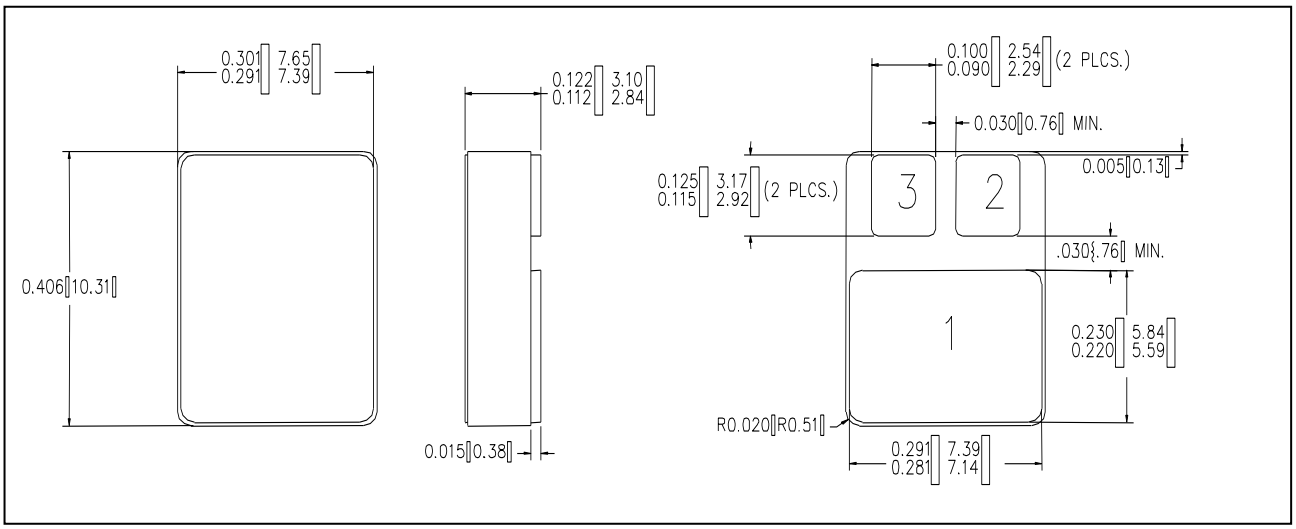
MECHANICAL DIMENSIONS: IN Inches / mm

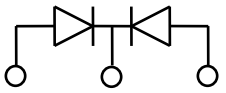
LCC-5



PINOUT TABLE

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

COMMON CATHODE



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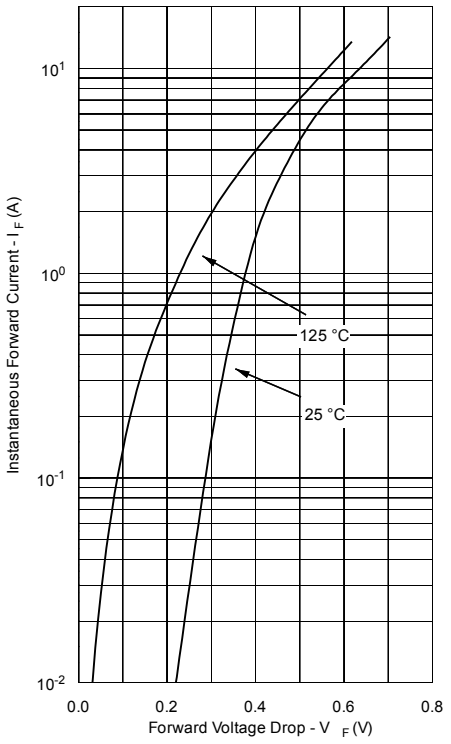
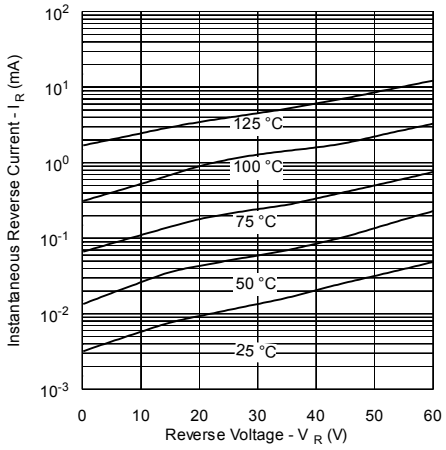
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance