

TECHNICAL DATA
DATA SHEET 4116, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

DESCRIPTION: A 45-VOLT, 60 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC CERAMIC LCC-3P PACKAGE.

MAXIMUM RATINGS

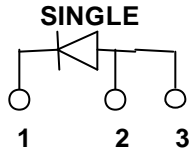
ALL RATINGS ARE @ $T_C = 25\text{ }^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C=100\text{ }^\circ\text{C}$) 50% duty cycle square waveform	I_o	60	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine)	I_{FSM}	400	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r = 5\text{V}$)	C_T	2400	pF
MAXIMUM THERMAL RESISTANCE	$R_{\theta JC}$	1.0	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	T_{op}/T_{stg}	-65 to + 175	$^\circ\text{C}$

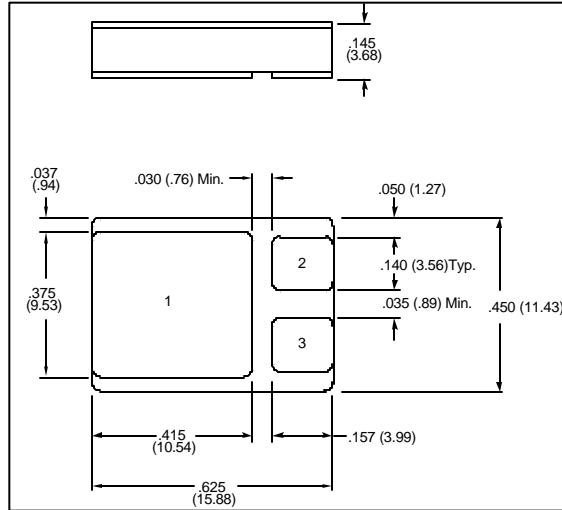
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 60\text{ Amps}$) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	V_f	0.70 0.63	Volts
MAXIMUM REVERSE CURRENT ($I_r @ 45\text{V PIV}$) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	I_r	1.2 45	mA

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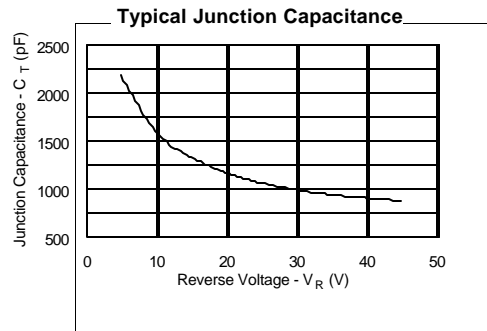
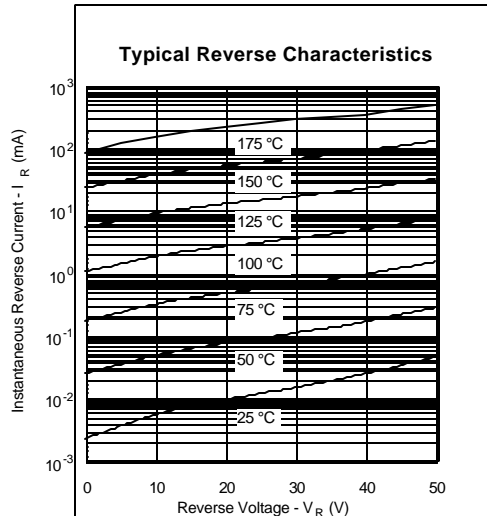
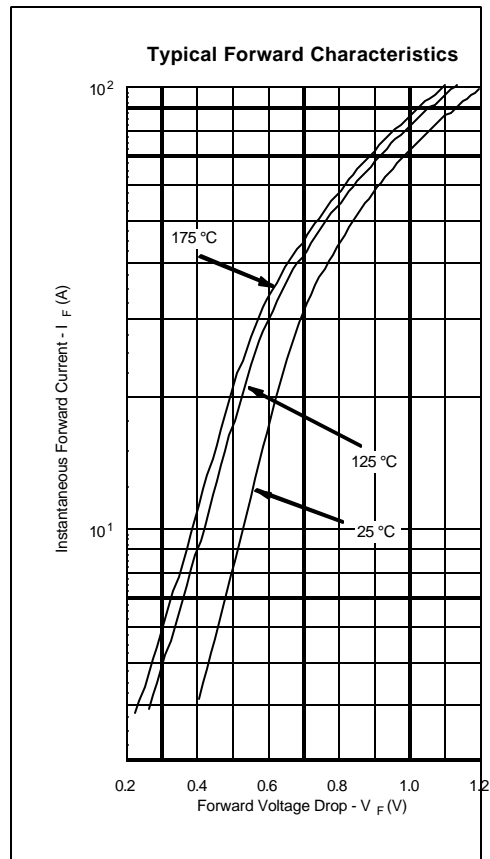
MECHANICAL DIMENSIONS: In Inches / mm



LCC-3P

PINOUT TABLE

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



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