SENSITRON SEMICONDUCTOR

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 @ $T_{\rm C}$ = 25 $^{\circ}{\rm C}$ UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T_{C} =100 $^{\circ}$ C) 50% duty cycle square waveform	I _O	60	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I _{FSM}	400	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	2400	pF
MAXIMUM THERMAL RESISTANCE	$R_{ extsf{ heta}JC}$	1.0	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed	(I _f = 60 Amps)			
	$T_J = 25 \ ^{\circ}C$	V _f	0.70	Volts
	T _J = 125 °C	•1	0.63	
MAXIMUM REVERSE CURRENT (Ir @ 45V PIV)				
	$T_J = 25 \ ^{\circ}C$	l _r	1.2	mA
	T _J = 125 °C		45	

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0.2

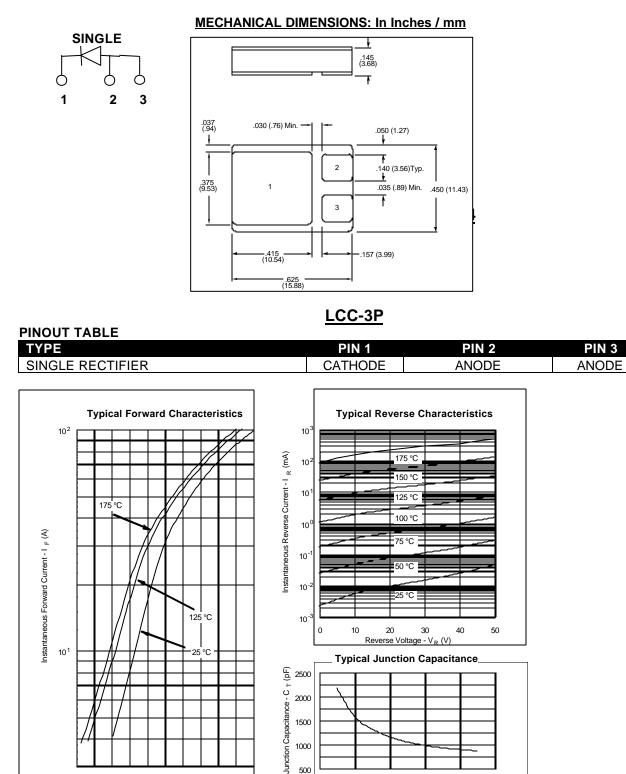
0.4

0.6

0.8

Forward Voltage Drop - V _F(V)

1.0



500

0

10

20 30 Reverse Voltage - V_R (V)

50

40



TECHNICAL DATA

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