TECHNICAL DATA DATA SHEET 4044, REV. -

# HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

**DESCRIPTION:** A 45-VOLT, 120 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC CERAMIC LCC-3P PACKAGE.

### **MAXIMUM RATINGS**

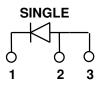
ALL RATINGS ARE @  $T_C = 25$  °C UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T <sub>C</sub> =100 <sup>O</sup> C)	Io	120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I <sub>FSM</sub>	500	Amps
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	C <sub>T</sub>	4800	pF
MAXIMUM THERMAL RESISTANCE	$R_{ hetaJC}$	0.25	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

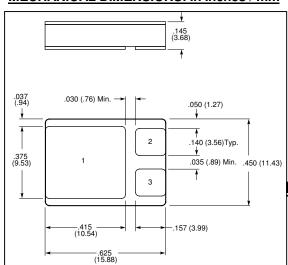
#### **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub>	I <sub>f</sub> = 45 Amps)			
T,	_J = 25 °C	$V_{f}$	0.68	Volts
T,	_J= 125 °C	-1	0.58	
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub>	I <sub>f</sub> = 120 Amps)			
T,	J= 25 °C	$V_{f}$	0.90	Volts
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 45V PIV)				
T,	_J= 25 °C	$I_r$	2.4	mA
Т,	_j= 125 °C		90	

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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



#### **TECHNICAL DATA**

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