

TECHNICAL DATA DATA SHEET 4004, REV.-

# HERMETIC POWER SCHOTTKY RECTIFIER

(SINGLE / DUAL)

**DESCRIPTION:** A 100 VOLT, 30 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC LCC-3P PACKAGE.

#### **MAXIMUM RATINGS**

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

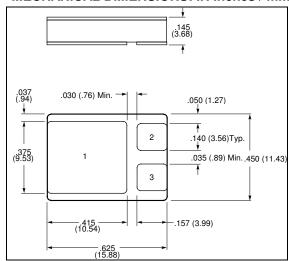
RATING		SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE		PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_C=100$ $^{\circ}$ C) (Single)		lo	15	Amps
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ T <sub>C</sub> =100 <sup>O</sup> C) (Common Cathode)		lo	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)		I <sub>FSM</sub>	280	Amps
MAXIMUM JUNCTION CAPACITANCE	$(V_r = 5V)$	$C_T$	500	рF
MAXIMUM THERMAL RESISTANCE (Common	(Single) Cathode)	$R_{ heta JC}$	1.21 0.61	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE		Top/Tstg	-65 to + 175	°C

## **ELECTRICAL CHARACTERISTICS**

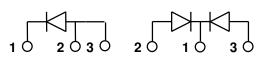
CHARACTERISTIC					
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> = 15 Amps)					
	T <sub>J</sub> = 25 °C	$V_{f}$	0.93	Volts	
	T <sub>J</sub> = 125 °C		0.77		
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 100 V PIV)					
	T <sub>J</sub> = 25 °C	$I_r$	0.35	mA	
	T <sub>J</sub> = 125 °C		8		

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#### **MECHANICAL DIMENSIONS: IN Inches / mm**



SINGLE COMMON CATHODE

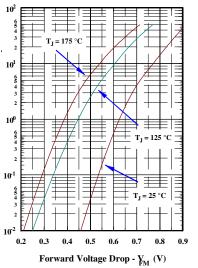


LCC-3P

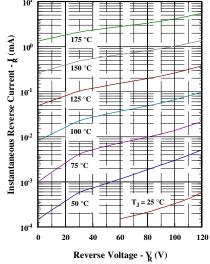
### **PINOUT TABLE**

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

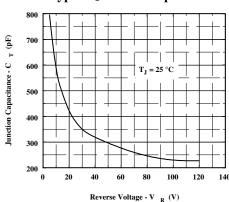




# Typical Reverse Characteristics



### **Typical Junction Capacitance**





#### **TECHNICAL DATA**

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