

TECHNICAL DATA DATA SHEET 4639, REV.-

# HERMETIC POWER SCHOTTKY RECTIFIER

(SINGLE / DUAL)

**DESCRIPTION:** A 100 VOLT, 45 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC LCC-3P PACKAGE.

#### **MAXIMUM RATINGS**

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

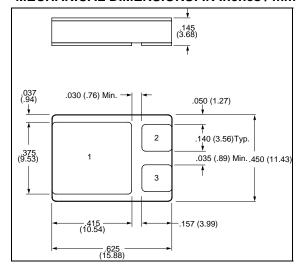
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_c$ =100 $^{\circ}$ C) (Single)	I <sub>O</sub>	45	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I <sub>FSM</sub>	200	Amps
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	C <sub>T</sub>	3000	pF
MAXIMUM THERMAL RESISTANCE	$R_{ heta JC}$	0.25	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 200	°C

### **ELECTRICAL CHARACTERISTICS**

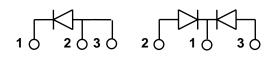
CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> = 45 Amps)			
T <sub>J</sub> = 25 °C	$V_{f}$	0.92	Volts
T <sub>J</sub> = 125°C		0.74	
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 100 V PIV)			
T <sub>J</sub> = 25 °C	l <sub>r</sub>	0.06	mA
T <sub>J</sub> = 125 °C		6	

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





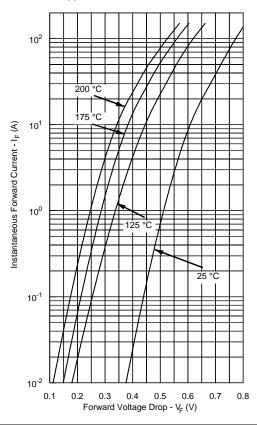


LCC-3P

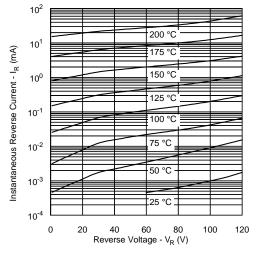
## **PINOUT TABLE**

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

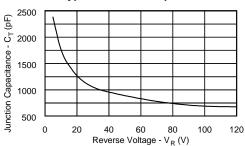
### **Typical Forward Characteristics**



## Typical Reverse Characteristics



## **Typical Junction Capacitance**





#### **TECHNICAL DATA**

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