

TECHNICAL DATA DATA SHEET 4770, REV.-

# HERMETIC POWER SCHOTTKY RECTIFIER

(SINGLE / DUAL)

DESCRIPTION: A 150 VOLT, 45 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC LCC-3P PACKAGE.

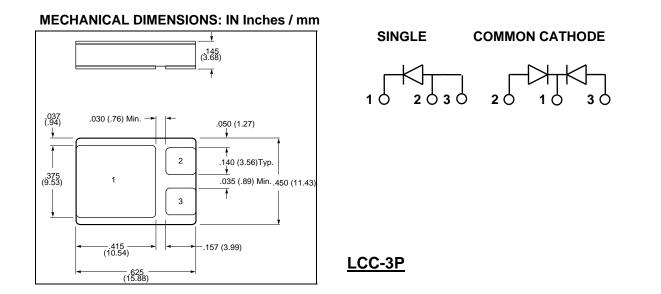
MAXIMUM RATINGS ALL	ALL RATINGS ARE @ T <sub>c</sub> = 25 °C UNLESS OTHERWISE SPECIFIED.				
RATING		SYMBOL	MAX.	UNITS	
PEAK INVERSE VOLTAGE		PIV	150	Volts	
MAXIMUM DC OUTPUT CURRENT With Cathode N (Single)	<i>l</i> laintained (@ T <sub>C</sub> =100 <sup>O</sup> C)	Ι <sub>ο</sub>	45	Amps	
MAXIMUM DC OUTPUT CURRENT With Cathode M (Common Cathode)	/laintained (@ T <sub>C</sub> =100 <sup>O</sup> C)	Ιο	45	Amps	
MAXIMUM NONREPETITIVE FORWARD SURGE ( (t = 8.3ms, Sine)	CURRENT	I <sub>FSM</sub>	1650	Amps	
MAXIMUM JUNCTION CAPACITANCE	(V <sub>r</sub> =5V)	C <sub>T</sub>	3000	pF	
MAXIMUM THERMAL RESISTANCE		$R_{ ext{ hetaJC}}$	0.25	°C/W	
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE		Top/Tstg	-65 to + 175	°C	

### **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC				
MAXIMUM FORWARD VOLTAGE DROP, Pulsed $(I_f = 45 \text{ Amps})$				
	T <sub>J</sub> = 25 °C	V <sub>f</sub>	0.96	Volts
	T <sub>J</sub> = 125 °C		0.77	
MAXIMUM REVERSE CURRENT (Ir @ 150 V PIV)				
	T <sub>J</sub> = 25 °C	l <sub>r</sub>	3	mA
	T <sub>J</sub> = 125 °C		48	

## **SENSITRON** SEMICONDUCTOR

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#### **PINOUT TABLE**

0.0

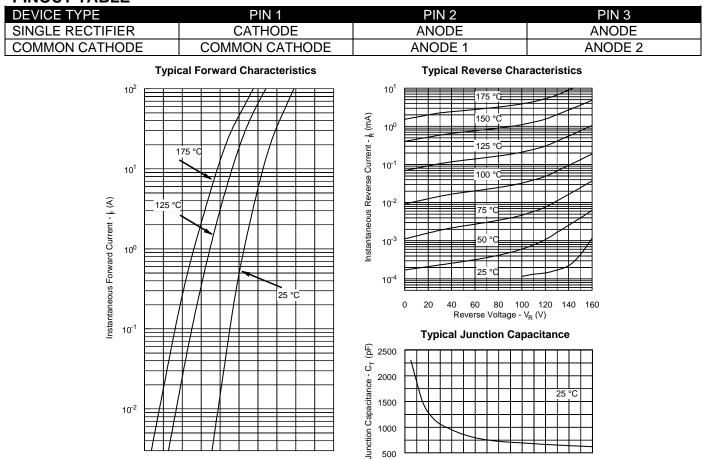
0.2

0.4

0.6

Forward Voltage Drop - V<sub>F</sub> (V)

0.8



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1.0

500

0 20 40 60 80 100 120

Reverse Voltage - V<sub>R</sub> (V)

140 160



#### **TECHNICAL DATA**

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