

TECHNICAL DATA DATA SHEET 680, REV. B

# HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

**DESCRIPTION:** A 45 VOLT, 15 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC LCC-5 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 (@ $T_C=100$ °C)	Io	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)		150	Amps
MAXIMUM JUNCTION CAPACITANCE $(V_r = 5V, T_J, = 25^{\circ}C, f_{SIG} = 1MHz, V_{SIG} = 50mV P-P))$	Ст	800	pF
MAXIMUM THERMAL RESISTANCE (Junction to Case)	$R_{ heta JC}$	2.65	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE		-65 to + 150	°C

#### **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> = 15 Amps)			
T <sub>J</sub> = 25 °C	$V_{f}$	0.65	Volts
T <sub>J</sub> = 125 °C		0.60	
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 45 V PIV)			
T <sub>J</sub> = 25 °C	l <sub>r</sub>	1.5	mA
T <sub>J</sub> = 125 °C		70	

**Note:** V<sub>F</sub> Curves are shown for die only.

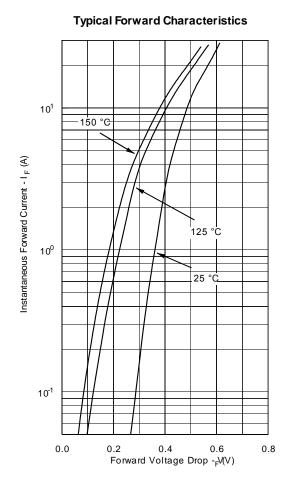
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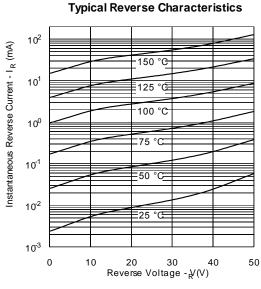
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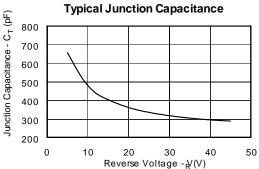
## LCC-5

### **PINOUT TABLE**

DEVICE TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, COMMON CATHODE (P)	CATHODE	ANODE	ANODE







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