

TECHNICAL DATA  
DATA SHEET 983, REV. -

## HERMETIC POWER SCHOTTKY RECTIFIER

### Very Low Forward Voltage Drop

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

#### MAXIMUM RATINGS

ALL RATINGS ARE @  $T_C = 25\text{ }^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C=100\text{ }^\circ\text{C}$ )	$I_O$	45	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ( $t = 8.3\text{ms}$ , Sine)	$I_{FSM}$	200	Amps
MAXIMUM JUNCTION CAPACITANCE ( $V_r = 5\text{V}$ )	$C_T$	2400	pF
MAXIMUM THERMAL RESISTANCE	$R_{\theta JC}$	0.47	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	$^\circ\text{C}$

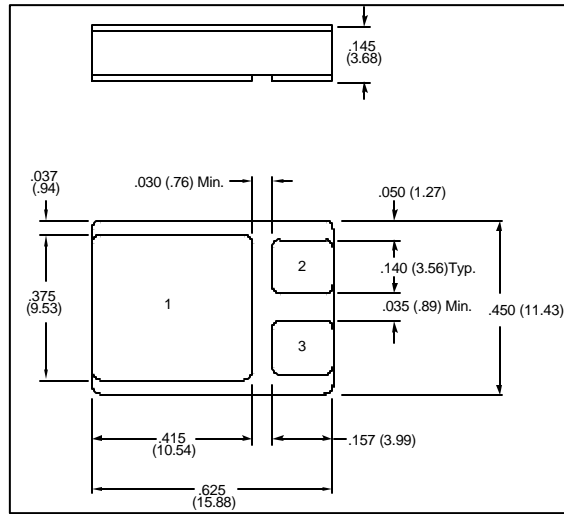
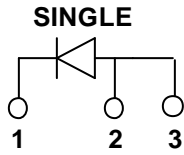
#### ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 45\text{ Amps}$ ) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	$V_f$	0.66 0.57	Volts
MAXIMUM REVERSE CURRENT ( $I_r$ @ 45V PIV) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	$I_r$	4.5 210	mA

SENSITRON

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**MECHANICAL DIMENSIONS: In Inches / mm**



**LCC-3P**

**PINOUT TABLE**

<b>TYPE</b>	<b>PIN 1</b>	<b>PIN 2</b>	<b>PIN 3</b>
SINGLE RECTIFIER	CATHODE	ANODE	ANODE

**TECHNICAL DATA**

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