

TECHNICAL DATA  
DATA SHEET 983, REV. A.1**HERMETIC POWER SCHOTTKY RECTIFIER**  
**Very Low Forward Voltage Drop****DESCRIPTION:** A 45 VOLT, 45 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC CERAMIC SMD-1 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	$R_{\theta JC}$	1.07	$^\circ\text{C/W}$
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

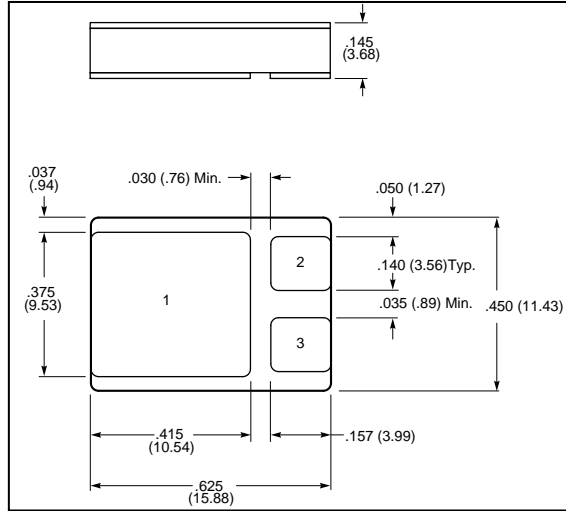
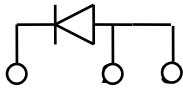
**SENSITRON**

**TECHNICAL DATA**

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**MECHANICAL DIMENSIONS: In Inches / mm**

**SINGLE**



**SMD-1**

**PINOUT TABLE**

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

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