

**TECHNICAL DATA**  
**DATASHEET 683, REV. -**

**HERMETIC SCHOTTKY RECTIFIER**

**FEATURES:**

- Electrically Equivalent to 1N6660
- Hermetic Surface Mount

**DESCRIPTION:** 45 VOLT, 30 AMP, RECTIFIER IN A HERMETIC SHD-6 PACKAGE.

**MAXIMUM RATINGS**

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

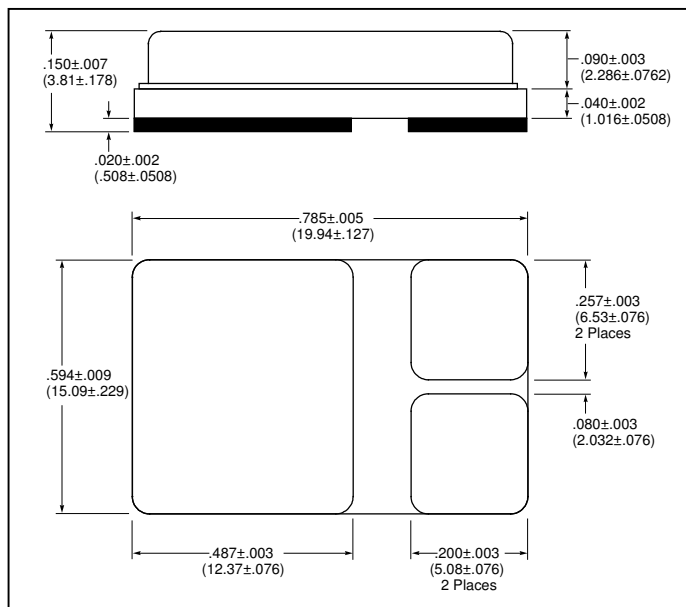
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT ( $T_C = 100^\circ\text{C}$ )	$I_O$	30	Amps
PEAK SINGLE CYCLE SURGE CURRENT $t_p = 8.3$ msec.	$I_{FSM}$	300	Amps
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{\theta JC}$	0.49	$^\circ\text{C/W}$
MAXIMUM OPERATING TEMPERATURE RANGE	-	-65 to +150	$^\circ\text{C}$
JUNCTION CAPACITANCE $V_R = 10\text{Vdc}$ , $f = 1\text{mHz}$ $V_{SIG} = 50\text{mV}$ (p-p) (Max)	$C_J$	2000	pF

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTICS	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP (PER LEG) ( $I_f = 15$ Amps) $I_f = 15\text{A}$ , $T_A = 25^\circ\text{C}$ $I_f = 15\text{A}$ , $T_A = 125^\circ\text{C}$	$V_f$	0.75 0.65	Volts
MAXIMUM REVERSE CURRENT $I_r$ @ PIV (PER LEG)	$I_r$	1.0 40	mA mA

**SENSITRON**  
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**MECHANICAL DIMENSIONS: In Inches / mm**



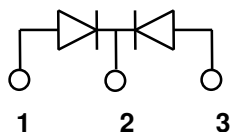
**SHD-6**

**PINOUT TABLE**

TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, COMMON CATHODE	COMMON CATHODE	ANODE 1	ANODE 2

**SCHEMATIC**

**COMMON CATHODE**



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