

TECHNICAL DATA  
DATA SHEET 745, REV. A

## HERMETIC POWER SCHOTTKY RECTIFIER

**DESCRIPTION:** 30 VOLT, 45/30 AMP, SCHOTTKY RECTIFIER IN A HERMETIC TO-258 PACKAGE.

### MAXIMUM RATINGS

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	30	Volts
MAXIMUM DC OUTPUT CURRENT @ $T_C=100\text{ }^\circ\text{C}$ (COMMON CATHODE & COMMON ANODE)	$I_o$	45	Amps
MAXIMUM DC OUTPUT CURRENT @ $T_C=100\text{ }^\circ\text{C}$ (DOUBLER & SINGLE)	$I_o$	30	Amps
PEAK SINGLE CYCLE SURGE CURRENT $t_p = 8.3\text{ msec.}$ (PER LEG)	$I_{FSM}$	200	Amps
MAXIMUM JUNCTION CAPACITANCE (PER LEG)	$C_T$	2200	pF
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{\theta JC}$	1.5	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE	$T_{J, stg}$	-65 to +150	$^\circ\text{C}$

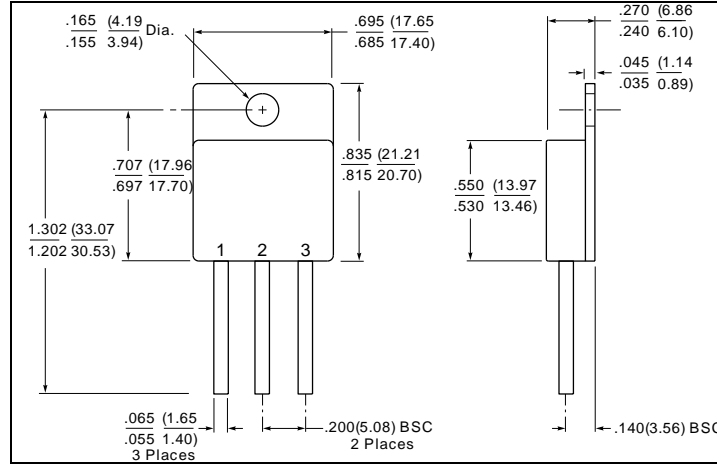
### ELECTRICAL CHARACTERISTICS

CHARACTERISTIC			
MAXIMUM PEAK FORWARD VOLTAGE DROP (PER LEG) ( $I_f = 30\text{ AMPS}$ )	$V_f$	0.66	Volts
$T_A = 25\text{ }^\circ\text{C}$			
$T_A = 125\text{ }^\circ\text{C}$		0.56	
MAXIMUM REVERSE CURRENT $I_{rr}$ @ PIV (PER LEG)	$I_{rr}$	4.0	mA
$T_A = 25\text{ }^\circ\text{C}$			
$T_A = 125\text{ }^\circ\text{C}$		200	

**SENSITRON**

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**MECHANICAL DIMENSIONS: In Inches / mm**

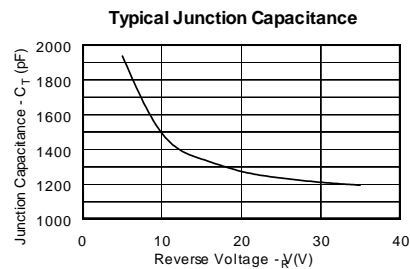
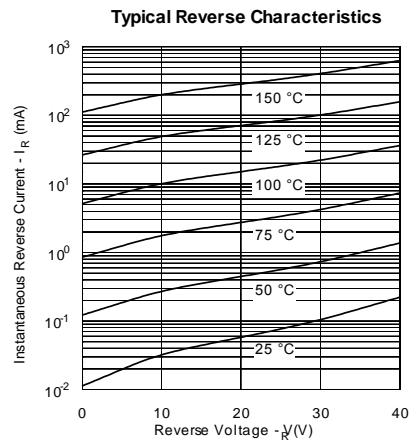
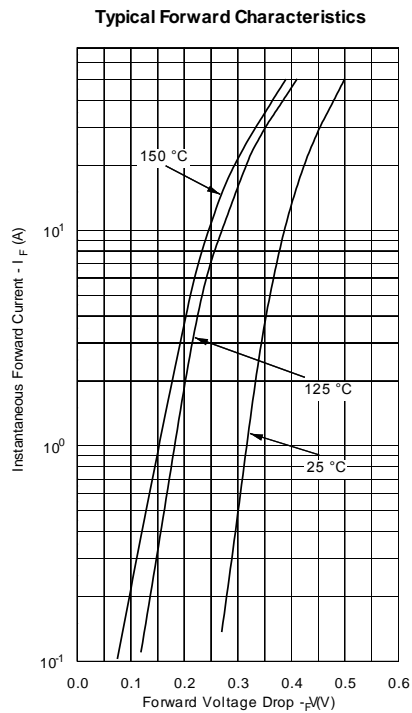


**TO-258**

**PINOUT TABLE**

TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
DUAL RECTIFIER/COMMON CATHODE (P)	CATHODE	ANODE 1	ANODE 2
DUAL RECTIFIER/COMMON ANODE (N)	ANODE	CATHODE 1	CATHODE 2
DUAL RECTIFIER DOUBLER (D)	CATHODE/ANODE	ANODE	CATHODE

**Note:**  $V_f$  curves shown are for die only.



**SENSITRON**

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