

TECHNICAL DATA  
 DATA SHEET 414, REV. -

**SCHOTTKY RECTIFIER**  
**Very Low Voltage Drop**  
**200°C Operating Temperature**

**DESCRIPTION:** 100 VOLT, 45 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-258 PACKAGE.

**MAXIMUM RATINGS**

ALL RATINGS ARE @ T<sub>C</sub> = 25 °C UNLESS OTHERWISE SPECIFIED.

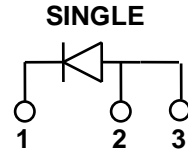
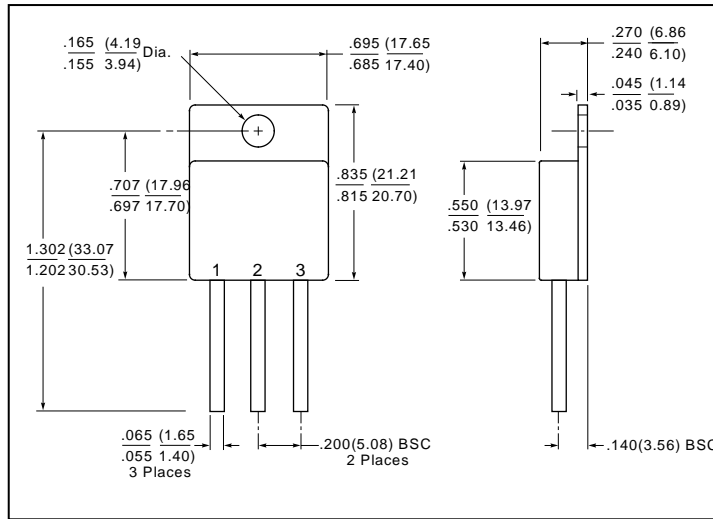
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T <sub>C</sub> =100 °C)	I <sub>O</sub>	45	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine) (per leg)	I <sub>FSM</sub>	200	Amps
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V) (per leg)	C <sub>T</sub>	3000	pF
MAXIMUM THERMAL RESISTANCE (per leg)	R <sub>θJC</sub>	0.30	°C/W
MAXIMUM JUNCTION TEMPERATURE RANGE	Top	-65 to + 200	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 200	°C

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> = 45 Amps) (per leg) T <sub>J</sub> = 25 °C T <sub>J</sub> = 125 °C	V <sub>f</sub>	1.04 0.86	Volts
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 100V PIV) (per leg) T <sub>J</sub> = 25 °C T <sub>J</sub> = 125 °C	I <sub>r</sub>	2.0 48	mA

**SENSITRON**  
**DATA SHEET 414, REV. -**

**MECHANICAL DIMENSIONS: In Inches / mm**

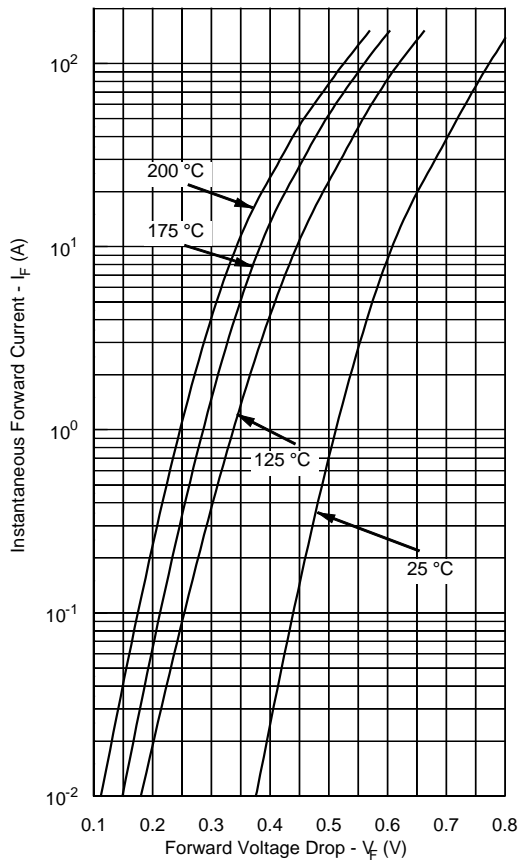


**TO-258**

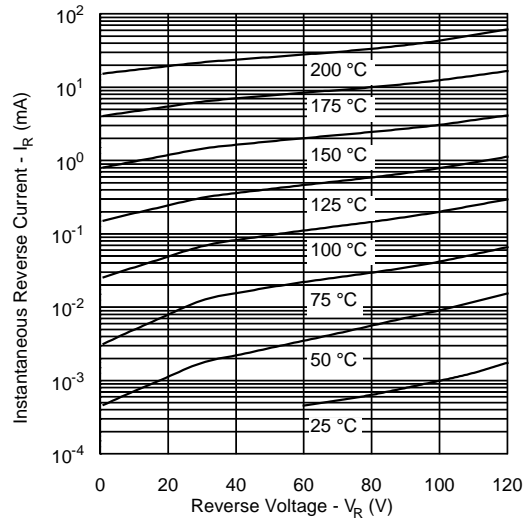
**PINOUT TABLE**

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

**Typical Forward Characteristics**



**Typical Reverse Characteristics**



**Typical Junction Capacitance**

