

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

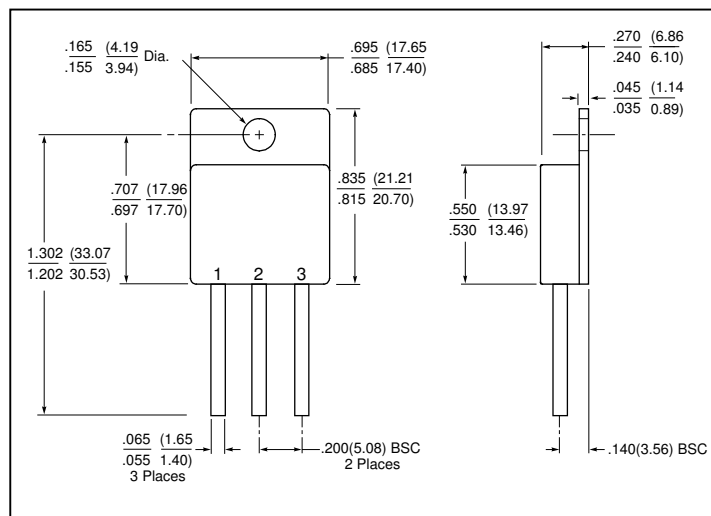
ALL RATINGS ARE @ $T_C = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C=100^\circ\text{C}$)	I_O	45	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine) (per leg)	I_{FSM}	200	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$) (per leg)	C_T	3000	pF
MAXIMUM THERMAL RESISTANCE (per leg)	$R_{\theta JC}$	0.30	$^\circ\text{C/W}$
MAXIMUM JUNCTION TEMPERATURE RANGE	T_{op}	-65 to + 200	$^\circ\text{C}$
MAXIMUM STORAGE TEMPERATURE RANGE	T_{stg}	-65 to + 200	$^\circ\text{C}$

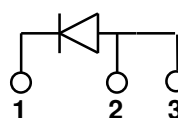
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 45\text{ Amps}$) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	1.04 0.86	Volts
MAXIMUM REVERSE CURRENT (I_r @ 100V PIV) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	2.0 48	mA

MECHANICAL DIMENSIONS: In Inches / mm



SINGLE

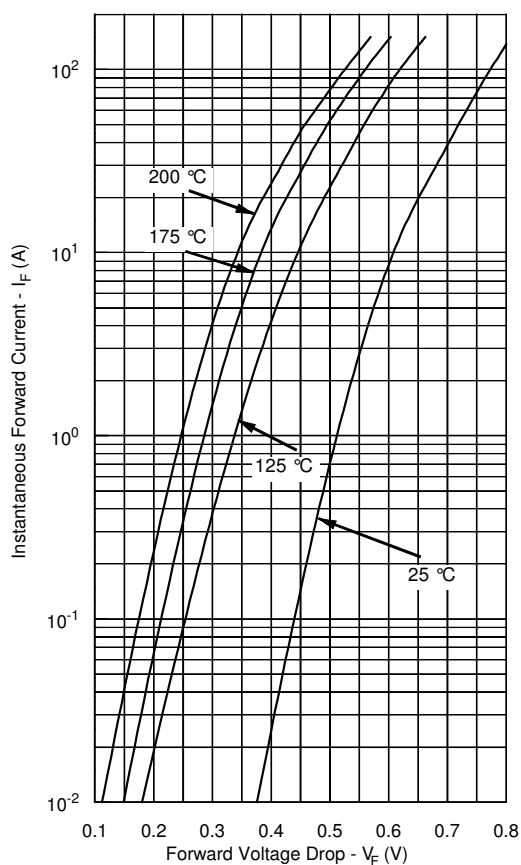


TO-258

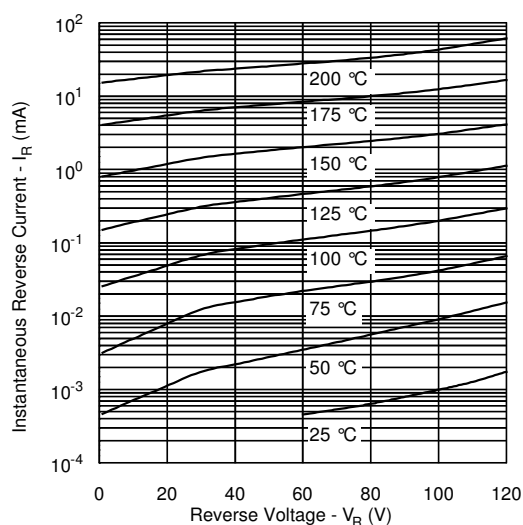
PINOUT TABLE

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

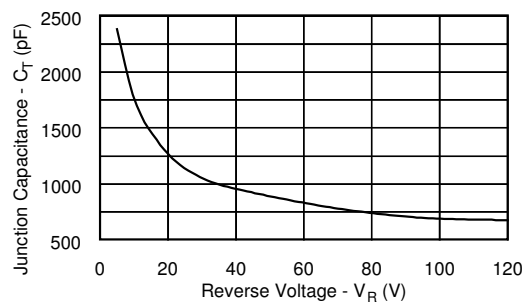
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



TECHNICAL DATA

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