TECHNICAL DATA DATA SHEET 610, REV. A

POWER SCHOTTKY RECTIFIER Very Low Voltage Drop

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.

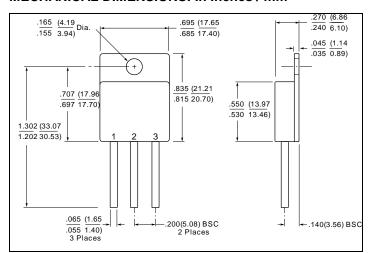
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT @ T _C =100 °C	Io	45	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT	I _{FSM}	200	Amps
(t = 8.3ms, Sine) (per leg)			
MAXIMUM THERMAL RESISTANCE (per leg)	$R_{ heta JC}$	1.15	°C/W
MAXIMUM JUNCTION TEMPERATURE RANGE	Тор	-65 to + 175	°C
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Tstg	-65 to + 175	°C

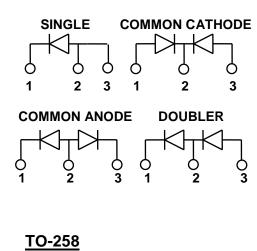
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 45 Amps) (per leg)			
T _J = 25 °C	V_{f}	0.95	Volts
T _J = 125 °C	,	0.85	
MAXIMUM REVERSE CURRENT (I _r @ 100V PIV) (per leg)			
T _J = 25 °C	I _r	1.5	mA
T _J = 125 °C		20	
MAXIMUM JUNCTION CAPACITANCE (V _r =5V) (per leg)	C_T	1400	pF

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MECHANICAL DIMENSIONS: In Inches / mm





PINOUT TABLE

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

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