TSC 9b

MUR820 THRU MUR860

8.0 AMPS. Ultrafast Plastic Rectifiers



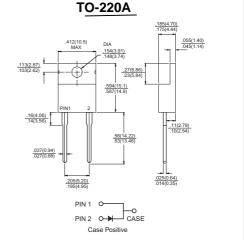
Voltage Range 200 to 600 Volts Current 8.0 Amperes

Features

- ♦ Low forward voltage drop
- ♦ High current capability
- ♦ High reliability
- 5. High surge current capability

Mechanical Data

- ♦ Cases: to-220a molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Terminals: Leads, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: As marked
- ♦ High temperature soldering guaranteed: 260°C/10 seconds/.25",(6.35mm) from case.
- ♦ Weight: 2.24 grams



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

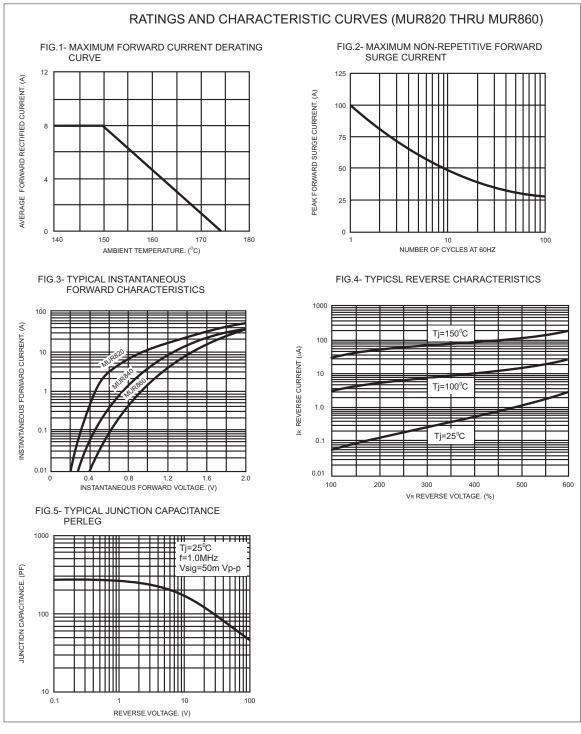
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

1 of capacitive load, defate current by 2070					
Type Number	Symbol	MUR820	MUR840	MUR860	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	V
Maximum RMS Voltage	V_{RMS}	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length (See Fig. 1)	I _(AV)	8.0			Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100			А
Maximum Instantaneous Forward Voltage @ 8.0A	V_{F}	0.975	1.30	1.7	V
Maximum DC Reverse Current @ T _C =25°C at Rated DC Blocking Voltage @ T _C =150°C (Note 4)	I _R		5.0 250		uA uA
Maximum Reverse Recovery Time (Note 2)	Trr	25	50		nS
Typical Thermal Resistance (Note 3)	$R\theta_{JC}$	3.0	2.0		°C/W
Operating Temperature Range	T _J	-65 to +175			${\mathbb C}$
Storage Temperature Range	Тѕтс		-65 to +175		

- Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4..0 Volts D.C.
 - 2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
 - 3. Thermal Resistance from Junction to Case, Mounted on Heatsink Size of 2" x 3" x 0.25" Al-Plate.
 - 4. Pulse lest: tp = 300 uS, Duty Cycle < 2%.





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