

Super Fast Rectifier



Features:

- Low power loss, high efficiency
- Low forward voltage drop
- Low reverse leakage current
- High surge current capability
- Plastic material has UL flammability classification 94V-0

Mechanical Data:

Case	: TO-220AC molded plastic
Lead	: MIL-STD-202E method 208C guaranteed
Weight	: 2.24 grams
Mounting Position	: Any
Reverse Voltage	: 200 to 600 Volts
Forward Current	: 8 Amperes

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Characteristics	Symbol	MUR820+	MUR840+	MUR860+	Unit
Max. Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	V
Max. RMS Voltage	V_{RMS}	200	400	600	
Max. DC Blocking Voltage	V_{DC}	140	280	420	
Max. Average Forward Rectified Current @ $T_L = 95^\circ C$	I_o	8			A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	100			
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	3	2		$^\circ C/W$
Peak Forward Voltage at 20A DC	V_F	0.95	1.3	1.5	V
Max. DC Reverse Current at $T_A = 25^\circ C$ Rated DC Blocking Voltage at $T_A = 100^\circ C$	I_R	5 250			μA
Maximum Reverse Recovery Time (Note 1)	T_{RR}	35	50		nS
Operating Temperature Range	T_J	-55 to +150			$^\circ C$
Storage Temperature Range	T_{STG}				

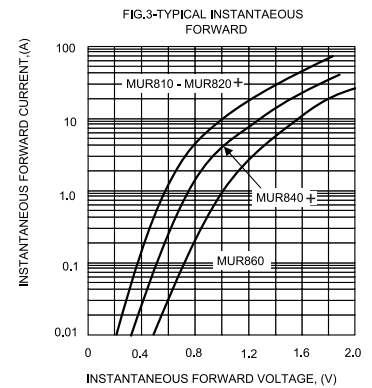
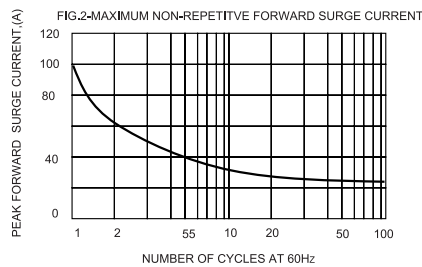
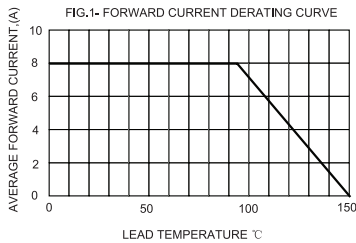
Notes:

1. Measured with $I_F = 0.5A$, $I_R = 1A$, $I_{RR} = 0.25A$.
2. Thermal resistance junction to case mounted on heatsink.
3. The typical data above is for reference only

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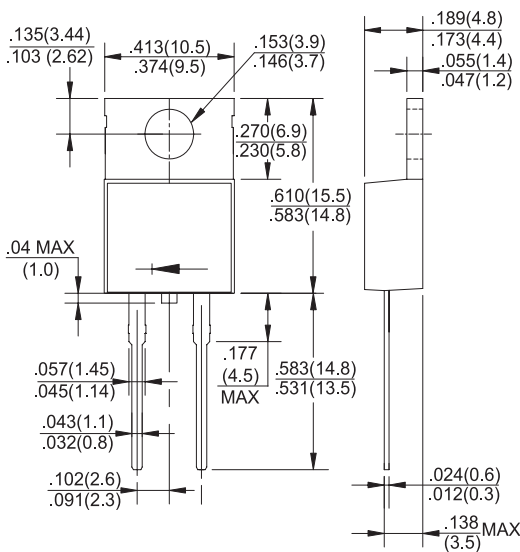


Ratings and Characteristic Curves



Dimensions:

TO-220AC



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Super Fast Rectifiers	MUR820+
	MUR840+
	MUR860+

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