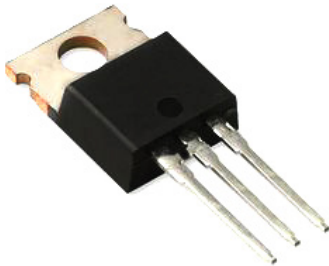


Ultra-Fast Switching

High efficiency Glass Passivated Rectifier

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Features:

- Fred chip construction
- Soft recovery characteristics
- Low forward voltage drop
- Low reverse leakage current
- High surge current capability
- Plastic material has UL flammability classification 94V-0

Mechanical Data:

Case	: ITO-220AB, molded plastic
Terminals	: Pure tin plated, Lead Solderable per MIL-STD-750, Method 2026
Polarity	: As marking
Mounting Position	: Any
Forward Current	: 16 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	MURF1620CT	MURF1660CT	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	200	600	V
Max. RMS Voltage	VRMS	140	420	
Max. DC Blocking Voltage	VDC	200	600	
Max. Average Forward Rectified Current	IF(AV)	16		A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	100		
Max. Forward Voltage at 8A per leg	VF	1	1.7	V
Max. DC Reverse Current at TJ = 25°C Rated DC Blocking Voltage at TJ = 125°C	IR	5 250		µA
Typical Thermal Resistance Junction to Ambient	RθJA	60		°C/W
Typical Thermal Resistance Junction to Case	RθJC	4		
Maximum Reverse Recovery Time (IF = 0.5A, IR = 1.0A, IRR = 0.25A)	TRR	35	50	Ns
Operating Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	TSTG			

Notes:

The typical data above is for reference only

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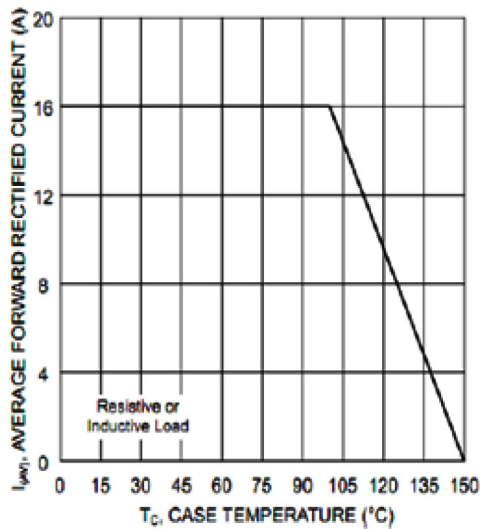
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Ultra-Fast Switching

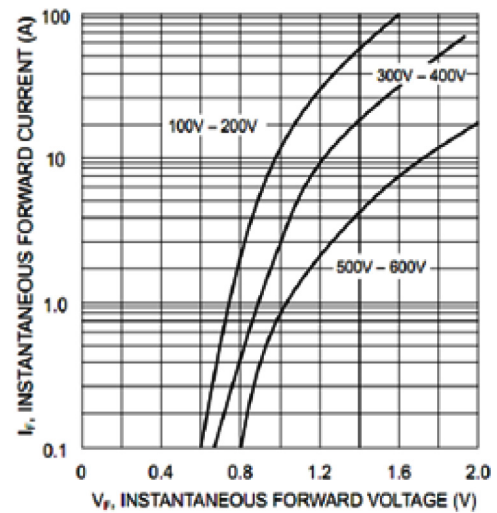
High efficiency Glass Passivated Rectifier

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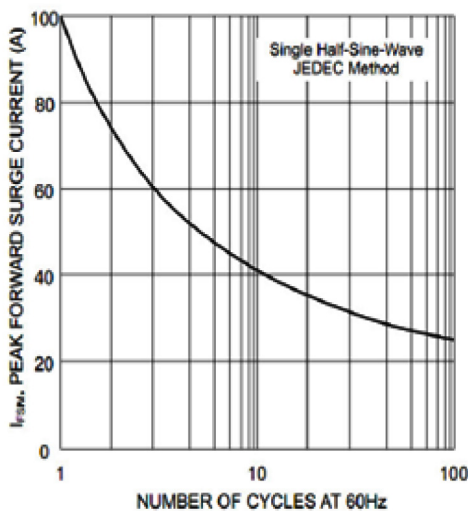
Ratings and Characteristic Curves



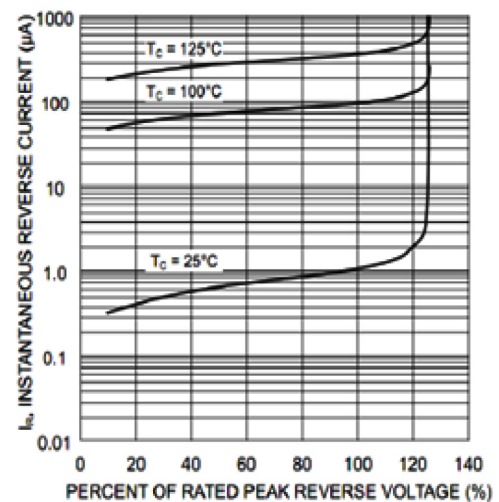
Forward Current Derating Curve



Typical Forward Characteristics



Min. Non-repetitive Peak Fwd Surge Current



Typical Reverse Characteristics

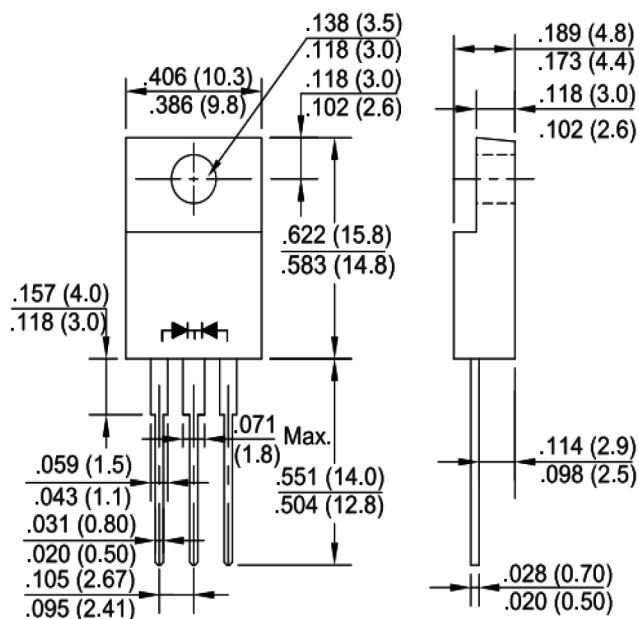
Ultra-Fast Switching

High efficiency Glass Passivated Rectifier

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Dimensions:

ITO-220AB



Part Number Table

Description	Part Number
Ultra-Fast Switching, High Efficiency	MURF1620CT
Glass Passivated Rectifiers	MURF1660CT

Dimensions : Inches (Millimetres)

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