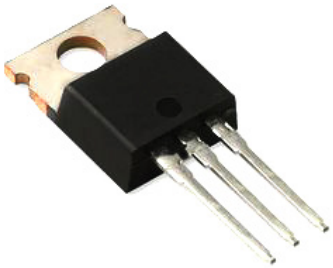
Ultra-Fast Switching
High efficiency Glass Passivated Rectifier



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

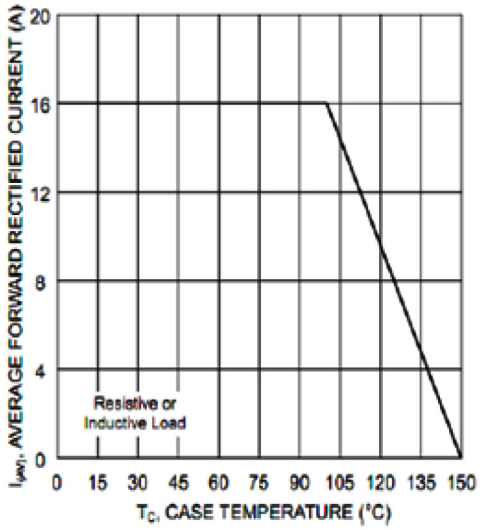
Maximum Ratings and Electrical Characteristics:

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%.

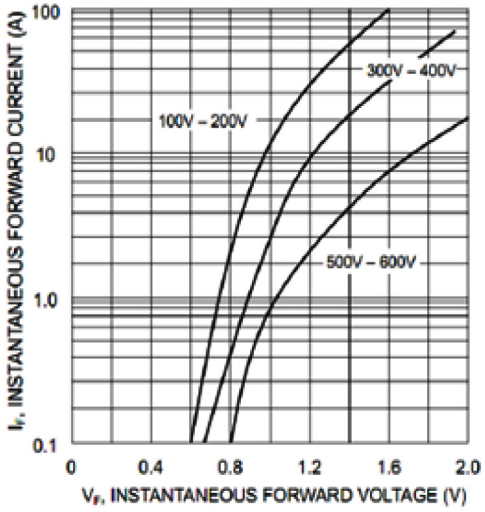
Characteristics	Symbol	MURF1620CT	MURF1660CT	Unit
Max. Recurrent Peak Reverse Voltage	V_{RRM}	200	600	V
Max. RMS Voltage	V_{RMS}	140	420	
Max. DC Blocking Voltage	V_{DC}	200	600	
Max. Average Forward Rectified Current	$I_{F(AV)}$	16		A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	100		
Max. Forward Voltage at 8A per leg	V_F	1	1.7	V
Max. DC Reverse Current at T_J = 25°C Rated DC Blocking Voltage at T_J = 125°C	I_R	5 250		μA
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	60		°C/W
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	4		
Maximum Reverse Recovery Time (I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A)	T_{RR}	35	50	Ns
Operating Temperature Range	T_J	-55 to +150		°C
Storage Temperature Range	T_{STG}			

Notes:
The typical data above is for reference only

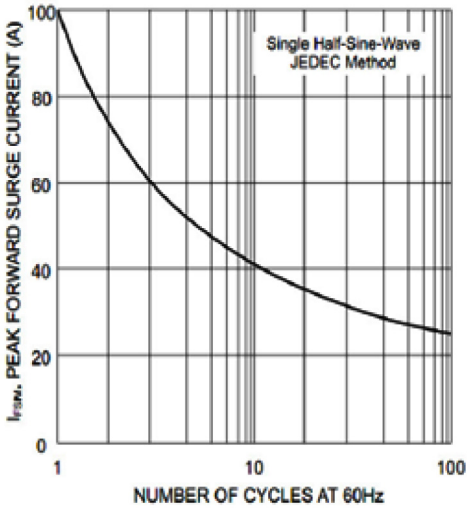
Ratings and Characteristic Curves



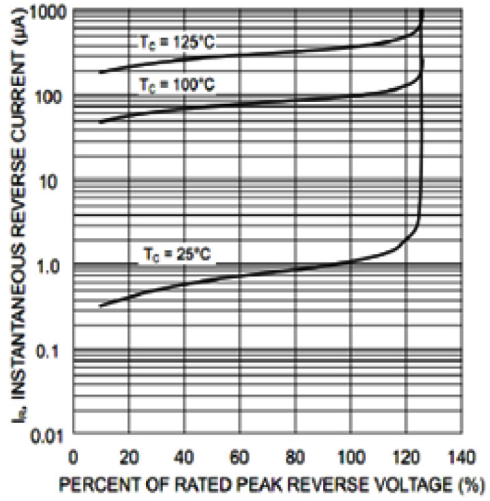
Forward Current Derating Curve



Typical Forward Characteristics



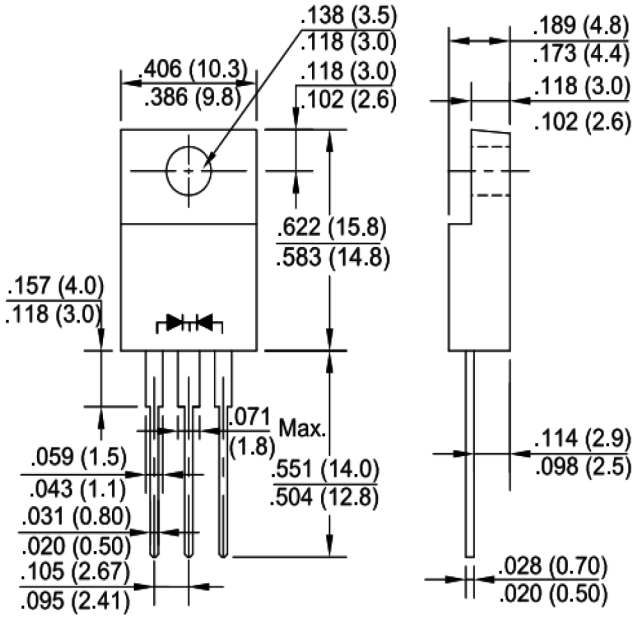
Min. Non-repetitive Peak Fwd Surge Current



Typical Reverse Characteristics

Dimensions:

ITO-220AB



Part Number Table

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

Dimensions : Inches (Millimetres)