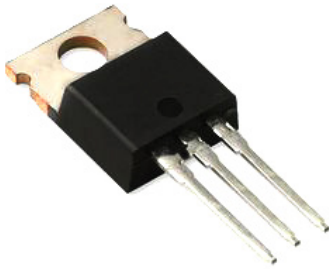


Ultra-Fast Switching

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
Lead	: Pure tin plated, lead solderable per MIL-STD-750, method 2026
Polarity	: As marking
Weight	: 1.9 grams (approx)
Mounting Position	: Any
Reverse Voltage	: 200 to 600 Volts
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}	150		
Max. Forward Voltage at 8A per leg	V_F	0.95	1.5	V
Max. DC Reverse Current at Rated DC Blocking Voltage at	I_R	10 250		μA
Typical Thermal Resistance	$R_{\theta JC}$	3	2	$^{\circ}C/W$
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		$^{\circ}C$
Storage Temperature Range	T_{STG}			

Notes:

1. Mounted on 14mm × 14mm pad areas, 1oz.FR4 P.C.B.
2. Free air, mounted on recommended copper pad area.
3. Pulse test: 300 μs pulse width, 1% duty cycle
4. Pulse test: Pulse width $\leq 40ms$
5. The typical data above is for reference only



Ultra-Fast Switching

High efficiency Glass Passivated Rectifier



Ratings and Characteristic Curves

FIG. 1 - FORWARD CURRENT DERATING CURVE

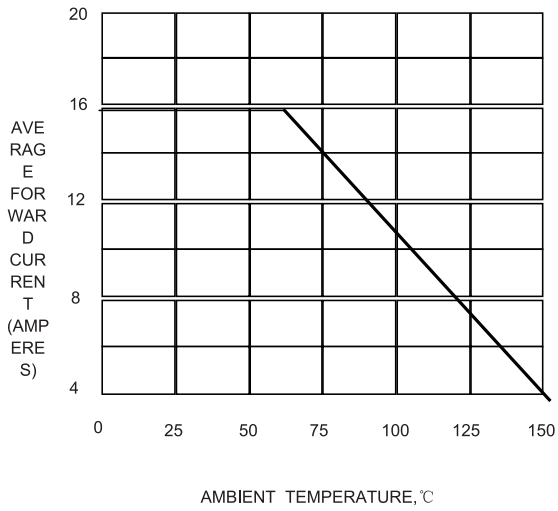


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

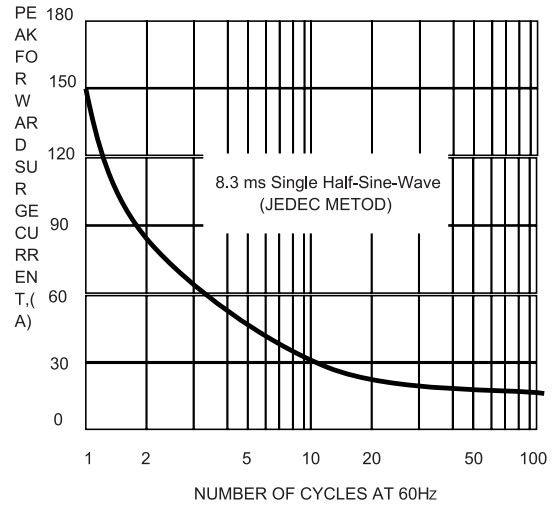


FIG.3-TYPICAL FORWARD CHARACTERISTICS

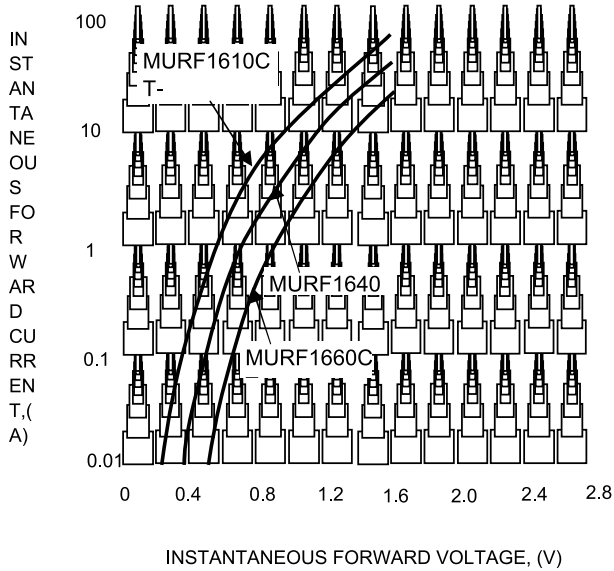
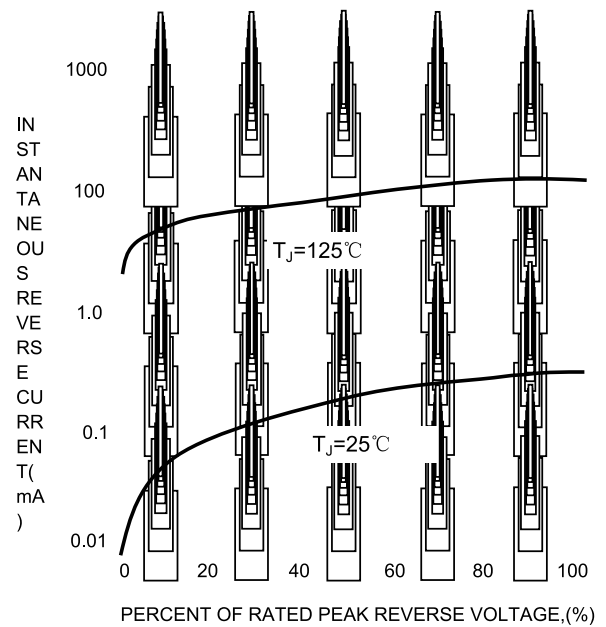


FIG.4-TYPICAL REVER CHARACTERISTICS



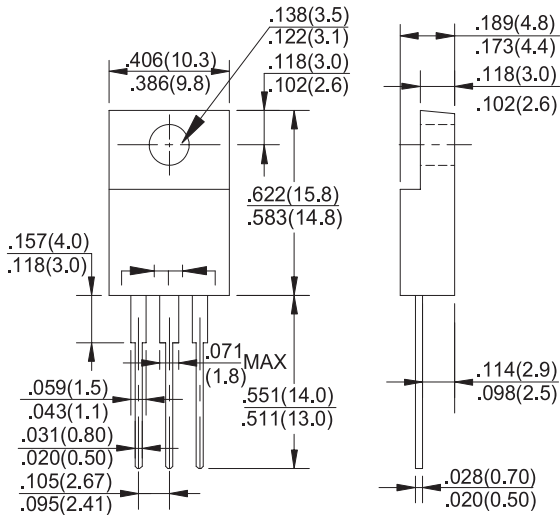
Ultra-Fast Switching

High efficiency Glass Passivated Rectifier



Dimensions:

ITO-220AB



Dimensions : Inches (Millimetres)

Part Number Table

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

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