Ultra Fast 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	: TO-220AB, molded plastic
Terminals	: Pure tin plated, lead solderable per MIL-STD-750, method 2026
Polarity	: As marked on the body
Weight	: 1.9 grams (approx)
Mounting Position	: Any
Reverse Voltage	: 400 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	MUR1640CT	MUR1660CT	Unit
Max. Recurrent Peak Reverse Voltage	Vrrm	400	600	
Max. RMS Voltage	Vrms	400	420	V
Max. DC Blocking Voltage	Vdc	280	600	
Max. Average Forward Rectified Current	lf(AV)	16		
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	Ifsm	150		A
Max. Forward Voltage at 8A per leg	VF	1.3	1.5	V
Max. DC Reverse Current $T_J = 25^{\circ}C$ Rated DC Blocking Voltage $T_J = 125^{\circ}C$	IR	10 250		mA
Typical Thermal Resistance	Rejc	2	2	°C/W
Max. Reverse Recovery Time (IF = 0.5A, IR = 1.0A, IRR = 0.25A)	Trr	50		
Operating Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	Тѕтс			

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: 300µs pulse width,1% duty cycle.
- 4. Pulse test: Pulse width \leq 40ms
- 5. The typical data above is for reference only

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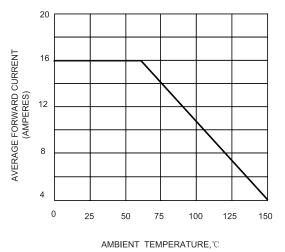


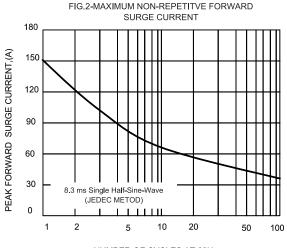
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Ratings and Characteristic Curves







NUMBER OF CYCLES AT 60Hz

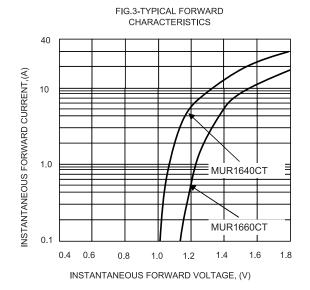
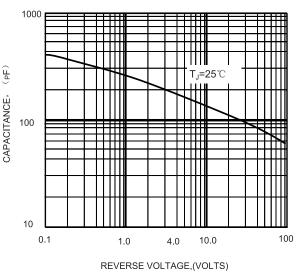


FIG.4-TYPICAL JUNCTION CAPACITANCE



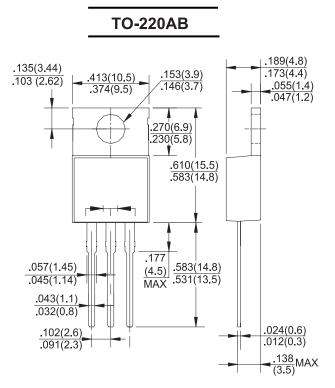
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Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number	
Ultra Fast Rectifiers	MUR1640CT	
Ultra Fast Rectiners	MUR1660CT	

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