



GLASS PASSIVATED SUPER FAST RECTIFIER

MUR2020CT - MUR2060CT

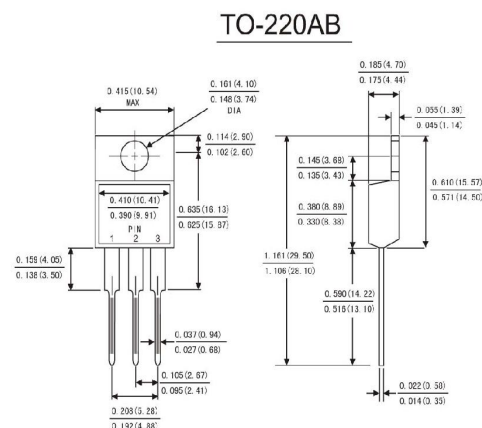
VOLTAGE RANGE - 200 to 600 V
FORWARD CURRENT - 20 A

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260 °C/10 seconds, 0.25”(6.35mm)from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: JEDEC TO-220AC molded plastic body
- Lead: Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity: As marked
- Mounting Position: Any
- Weight: 0.08ounce, 2.24 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified, Single phase, half wave, resistive or inductive load.
For capacitive load, derate by 20%.

	Symbols	MUR 2020CT	MUR 2040CT	MUR 2060CT	Units
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	Volts
Maximum RMS voltage	V_{RMS}	140	280	420	Volts
Maximum DC blocking voltage	V_{DC}	200	400	600	Volts
Maximum average forward rectified current (see Fig.1)	Per leg	10			Amps
	Total device				
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	100			Amps
Maximum Instantaneous Forward Voltage at 4.0 A	V_F	0.98	1.3	1.5	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_a=25\text{ }^\circ\text{C}$	5	10.0		μA
	$T_a=125\text{ }^\circ\text{C}$	500			
Maximum reverse recovery time (Note 2)	T_{RR}	35			ns
Typical thermal resistance (Note 3)	$R_{\theta JC}$	2.5			$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J/T_{STG}	-65 to 150			$^\circ\text{C}$

Notes:

- Pulse test: 300 μs pulse width 1% duty cycle
- Reverse recovery test conditions $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.5\text{A}$
- Thermal resistance from junction to case



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RATINGS AND CHARACTERISTIC CURVES MUR2020CT - MUR2060CT

FIG.1-FORWARD CURRENT DERATING CURVE

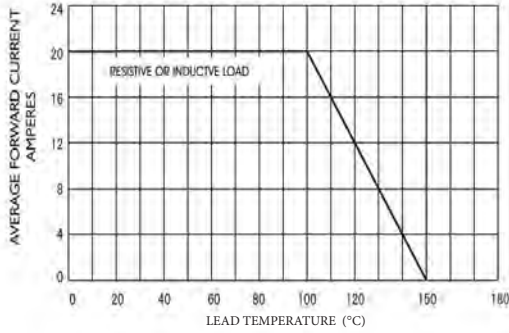


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

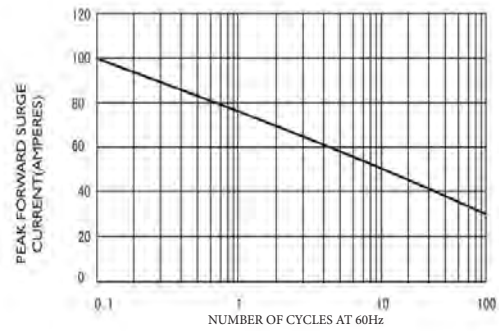


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

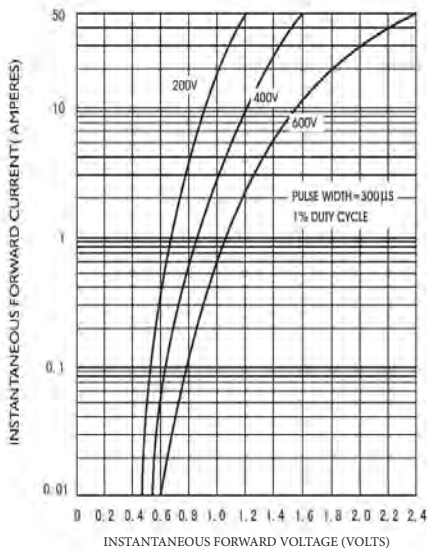


FIG.4-TYPICAL REVERSE CHARACTERISTICS

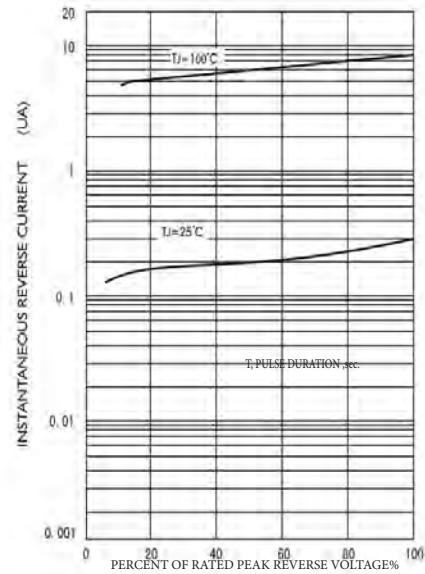


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

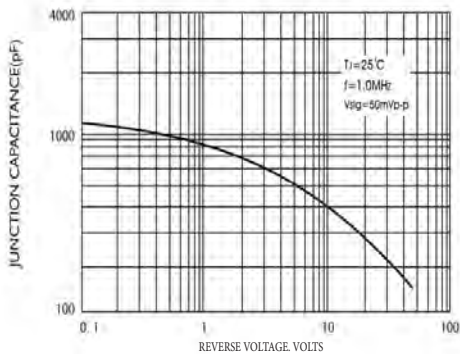


FIG.6-TYPICAL JUNCTION CAPACITANCE

