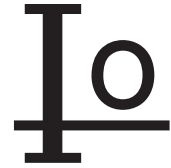


# MUR2020CT THRU MUR2060CT

GLASS PASSIVATED SUPER FAST RECTIFIER

Reverse Voltage - 200 -600 Volts

Forward Current - 20.0Amperes



## 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 2011/65/ EU

## MECHANICAL DATA

- Case: JEDEC TO-220AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked.
- Mounting Position: Any
- Weight: 1.81grams
- Lead Free Finish/RoHS Compliant

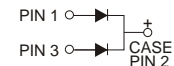
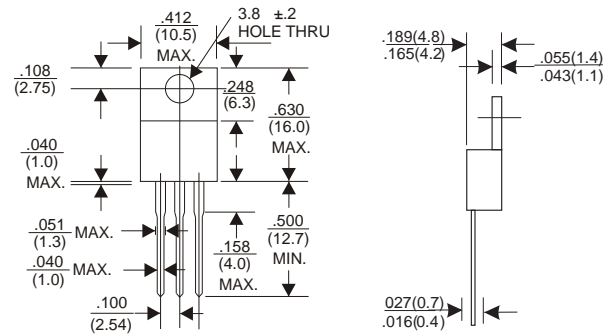
## VOLTAGE RANGE

200 to 600Volts

## CURRENT

20.0 Ampere

## TO-220AB



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	VRRM	200	400	600	Volts
Maximum RMS voltage	VRMS	140	280	420	Volts
Maximum DC blocking voltage	VDC	200	400	600	Volts
Maximum average forward rectified current(see Fig.1)	Per leg	10.0			Amps
	Total device	20.0			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150			Amps
Maximum instantaneous forward voltage at 10.0 A(Note 1)	VF	0.975	1.3	1.7	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	IR	TA = 25°C	5		uA
		TA = 125°C	10		
Maximum Reverse Recovery Time (Note 2)	Trr	35			ns
Typical thermal resistance (Note 3)	RθJC	2.5			°C/W
Operating junction temperature range	TJ	-65 to +150			°C
Storage temperature range	TSTG	-65 to +175			°C

- Notes: 1. Pulse test: 300μ s pulse width, 1% duty cycle  
 2. Reverse recovery test conditions IF=0.5A,IR= 1.0A, Irr=0.5A  
 3. Thermal resistance from junction to case

# RATINGS AND CHARACTERISTIC CURVES MUR2020CT THRU MUR2060CT

FIG.1-FORWARD CURRENT DERATING CURVE

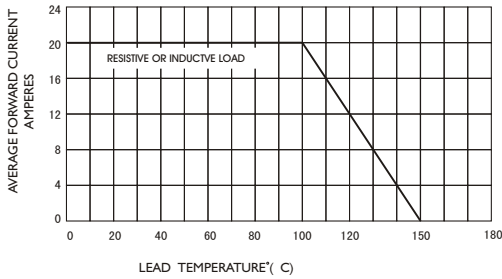


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

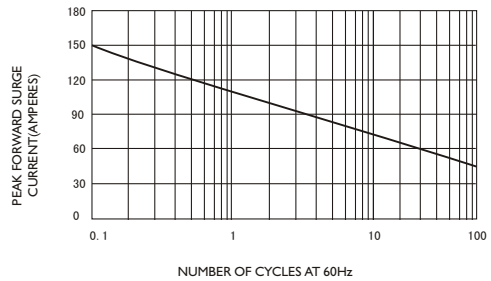


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

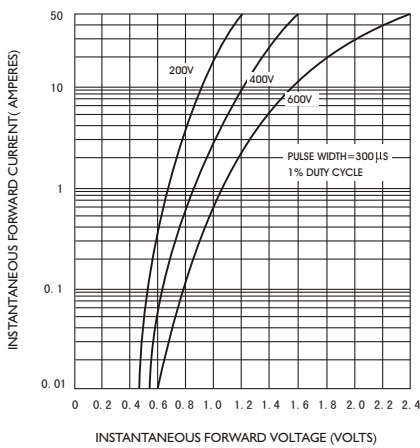


FIG.4-TYPICAL REVERSE CHARACTERISTICS

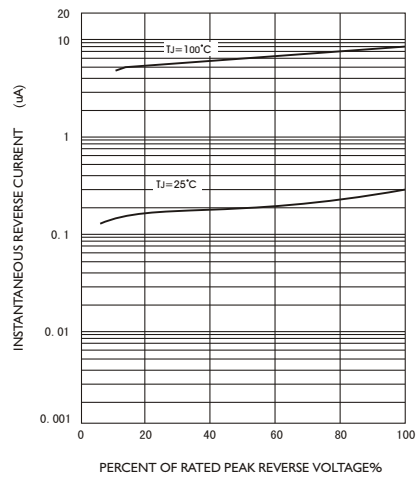


FIG.5-TYPICAL JUNCTION CAPACITANCE

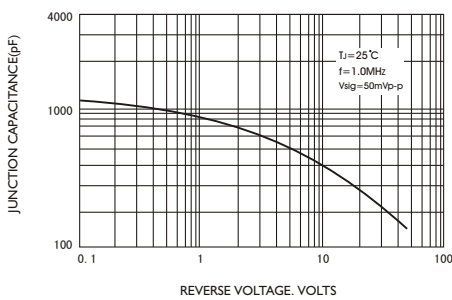


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

