

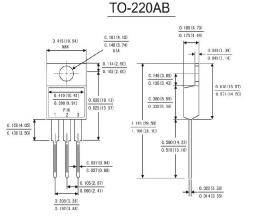
#### **GLASS PASSIVATED SUPER FAST RECTIFIER**

## MUR1010CT - MUR1060CT

Voltage Range - 100 to 600 V Forward Current - 10 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



Dimensions in inches and (millimeters)

#### **MECHANICAL DATA**

- Case: JEDEC TO-220 AC molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Lead: Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.08ounce, 2.24 grams

#### 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 1010CT	MUR 1020CT	MUR 1040CT	MUR 1060CT	Units
Maximum repetitive peak reverse voltage		Vrrm	100	200	400	600	Volts
Maximum RMS voltage		Vrms	70	140	280	420	Volts
Maximum DC blocking voltage		VDC	100	200	400	600	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm)lead length at TA=55 C	Per leg Total device		5.0 10.0				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	125			Amps	
Maximum Instantaneous Forward Voltage at 4.0 A		VF	0.975 1.3		1.7	Volts	
Maximum DC Reverse Current at rated DC blocking voltage	Ta=25 °C Ta=125 °C	IR	5.	5.0 10.0 500.0		0.0	μΑ
Maximum reverse recovery time (Note 2)		Trr	35			ns	
Typical thermal resistance (Note 3)		Reuc	1.5			°C/W	
Operating junction and storage temperature range		Tj/Tstg	-40 to +150			°C	

#### Notes:

1. Pulse test: 300 µs pulse width 1% duty cycle

2. Reverse recovery test conditions  $I_{F}=0.5A$ ,  $I_{R}=1.0A$ ,  $I_{RR}=0.5A$ 

3. Thermal resistance from junction to case

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### **RATINGS AND CHARACTERISTIC CURVES MUR1010CT - MUR1060CT**

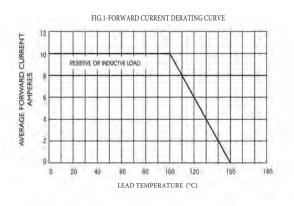


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

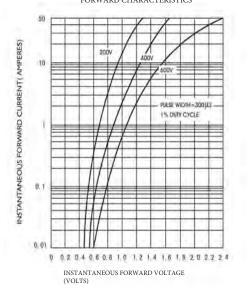
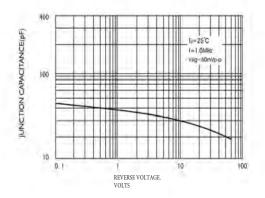


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



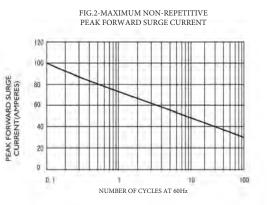


FIG.4-TYPICAL REVERSE CHARACTERISTICS

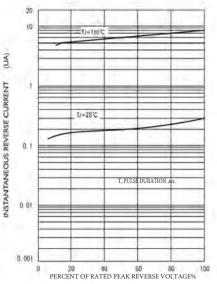
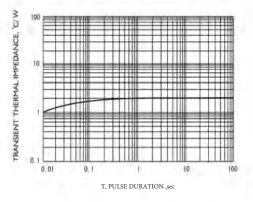


FIG.6-TYPICAL JUNCTION CAPACITANCE



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