

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

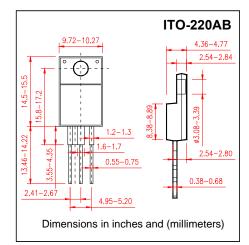
### MURF1220CT - MURF1260CT

Reverse Voltage:200 to 600 V Forward Current:12 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 ITO-220AB molded plastic body

Terminals: Lead solderable per MIL-STD-750 method 2026

Polarity: As markedMounting Position: Any

#### MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Rating at 25  $^{\circ}$ C ambient temperature unless otherwise specified, Single phase , half wave, resistive or inductive load. For capacitive load, derate by 20%.

		Symbols	MUR 1220CT	MUR 1240CT	MUR 1260CT	Units
			122001	124001	1260C1	
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	Per leg	(AV)	6.0			Amps
rectified current(Fig.1)	Total Device			12.0		
Peak forward surge current 8.3 ms single half sine-wave		ı	125			Amps
superimposed on rated load(JEDEC method)		FSM				
Maximum instantaneous forward voltage at 12.0 A(Note1)		V <sub>F</sub>	0.975	1.3	1.7	Volts
Maximum instantaneous reverse		I R	5	10		uA
current at rated DC blocking	Ta =25 ℃		_			
voltage(Note1)	Ta=125 °C		500			7
Maximum Reverse Recovery Time(Note 2)		Trr	35			ns
Typical thermal resistance(Note 3)		R <sub>e</sub> JC	2.0			°C/W
Operating junction temperature range		Т	-40 to +150			°C
Storage temperature range		T STG	-40 to +150			°C

#### Notes:

- 1. Pulse test:300 µs 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

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#### RATING AND CHARACTERISTIC CURVES MURF1220CT - MURF1260CT

FIG. 1-FORWARD CURRENT DERATING CURVE

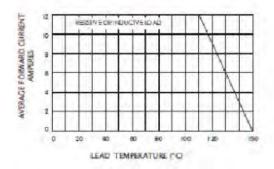


FIG.3-TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS

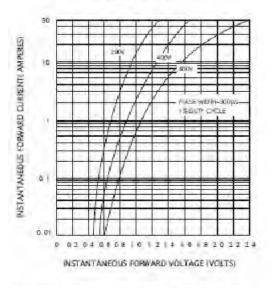


FIG.5-TYPICAL JUNCTION CAPACITANCE

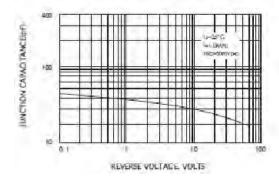


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

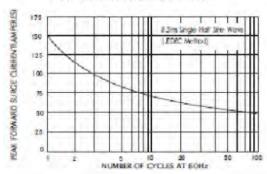


FIG.4-TYPICAL REVERSE CHARACTERISTICS

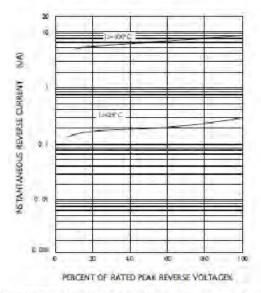
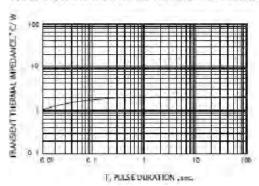


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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