GLASS PASSIVATED SUPER FAST RECTIFIER

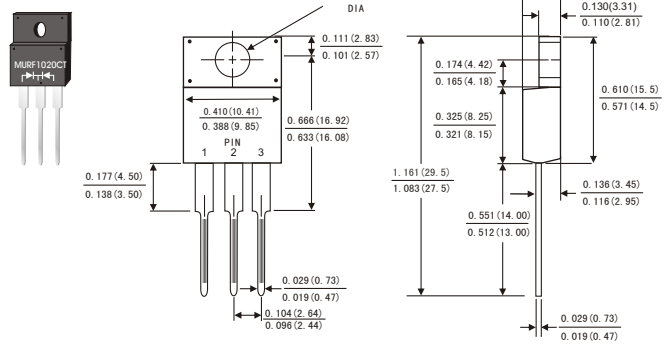
MURF1020CT - MURF1060CT

Reverse Voltage - 200 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

ITO-220AB



Dimensions in inches and (millimeters)

MECHANICAL DATA

- *Case*:JEDEC ITO-220AB molded plastic body
- *Terminals*:Lead solderable per MIL-STD-750,method 2026
- *Polarity*:As marked.
- *Mounting Position*:Any
- *Weight*:0.08ounce, 2.24 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

		Symbols	MURF 1020CT	MURF 1040CT	MURF 1060CT	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	$I_{(AV)}$	5.0			Amps
	Total device		10.0			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	125			Amps
Maximum instantaneous forward voltage at 10.0 A(Note 1)		V_F	0.975	1.3	1.7	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T_A=25 ℃	I_R	5	10		uA
	T_A=125 ℃		500			
Maximum Reverse Recovery Time (Note 2)		T_{rr}	35			ns
Typical thermal resistance (Note 3)		$R_{\theta JC}$	3.0			℃/W
Operating junction temperature range		T_J	-40 to+150			℃
Storage temperature range		T_{STG}	-40 to+150			℃

Notes:1.Pulse test: 300 s 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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RATING CHARACTERISTIC CURVES MURF1020CT - MURF1060CT

FIG.1-FORWARD CURRENT DERATING CURVE

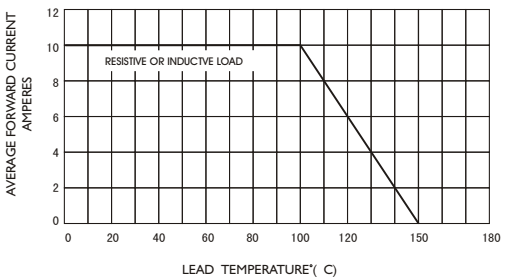


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

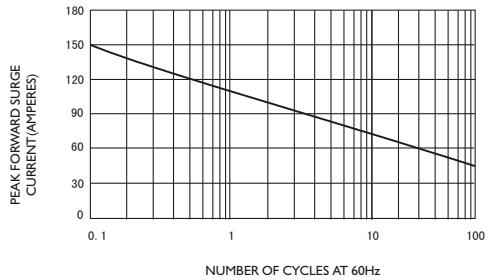


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

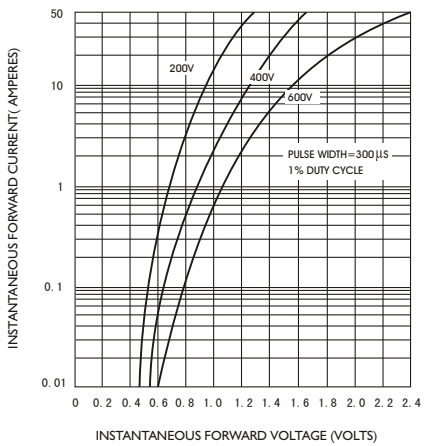


FIG.4-TYPICAL REVERSE CHARACTERISTICS

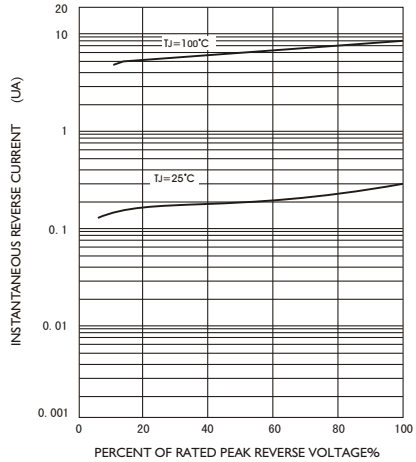


FIG.5-TYPICAL JUNCTION CAPACITANCE

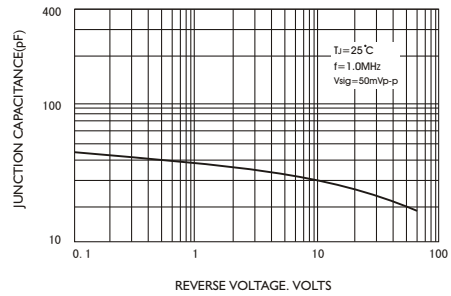
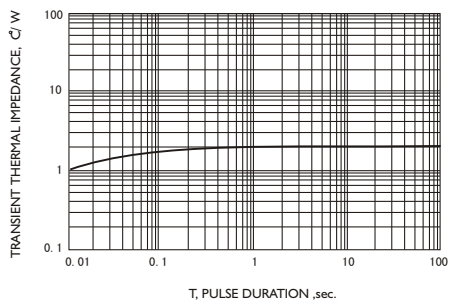


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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