

MURF1620CT THRU MURF1660CT

GLASS PASSIVATED SUPER FAST RECTIFIER

Reverse Voltage - 200 -600 Volts

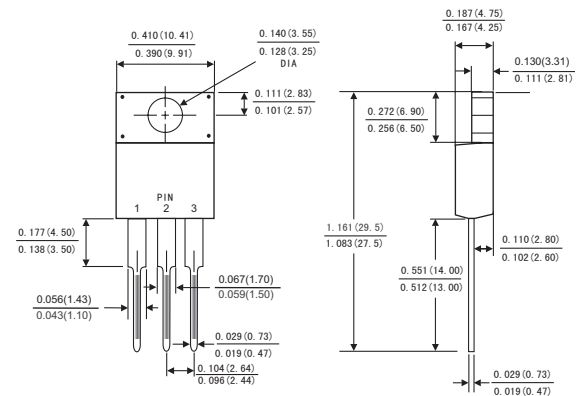
Forward Current - 16.0Amperes

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



ITO-220AB



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

		Symbols	MURF 1620CT	MURF 1640CT	MURF 1660CT	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)	8.0 16.0			Amps
	Total device					
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	150			Amps
Maximum instantaneous forward voltage at 8.0 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°C	I _R	5	10		uA
	T _a =125°C		500			
Maximum Reverse Recovery Time (Note 2)		T _{rr}	35			ns
Typical thermal resistance (Note 3)		R _{θJC}	3.0			°C/W
Operating junction temperature range		T _J	-65 to+175			°C
Storage temperature range		T _{STG}	-65 to+175			°C

- Notes:**
1. Pulse test: 300μs pulse width,1% duty cycle
 2. Reverse recovery test conditions $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$
 3. Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES MURF1620CT THRU MURF1660CT

FIG.1-FORWARD CURRENT DERATING CURVE

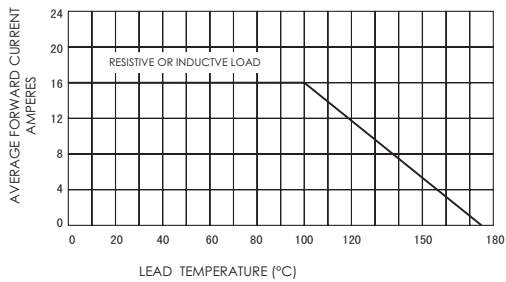


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

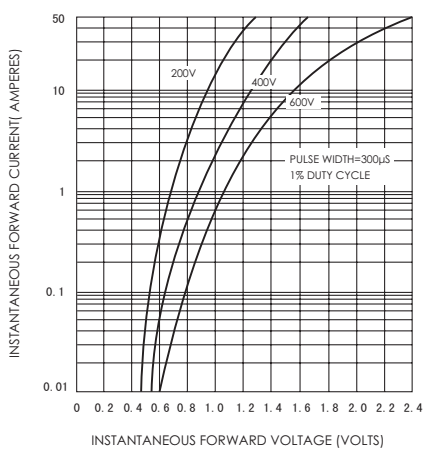


FIG.5-TYPICAL JUNCTION CAPACITANCE

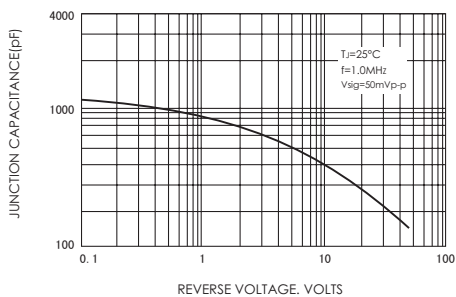


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

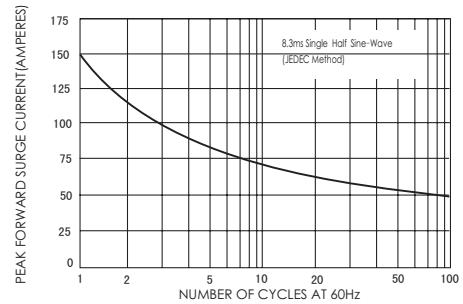


FIG.4-TYPICAL REVERSE CHARACTERISTICS

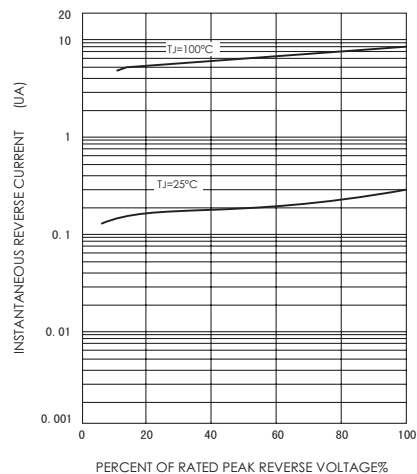


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

