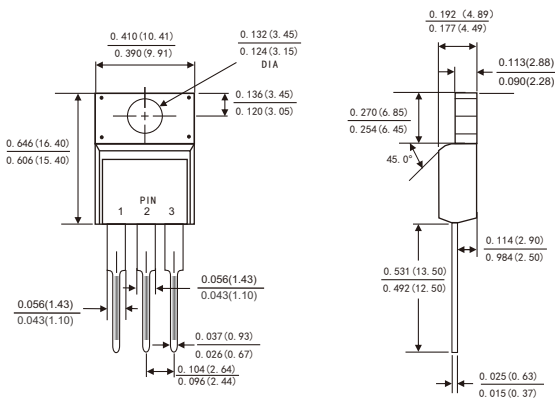


FEATURES

- 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



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

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%.)

Parameter	Symbols	MURF 3020CT	MURF 3040CT	MURF 3060CT	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)	<div>Per leg</div> <div>Total device</div>	I(AV)	15.0 30.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}		220		Amps
Maximum instantaneous forward voltage at 15.0 A per leg(Note 1)	V _F	1.05	1.30	1.7	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	<div>T_A =25°C</div> <div>T_A =125°C</div>	I _R	5 50		μA
Maximum Reverse Recovery Time (Note 2)	T _{rr}		35		ns
Typical thermal resistance (Note 3)	R _{θJC}		4.5		°C/W
Operating junction temperature range	T _J		-55 to+150		°C
Storage temperature range	T _{STG}		-55 to+150		°C

Notes: 1. Pulse test: 300 μ s 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 MURF3020CT THRU MURF3060CT

FIG.1-FORWARD CURRENT DERATING CURVE

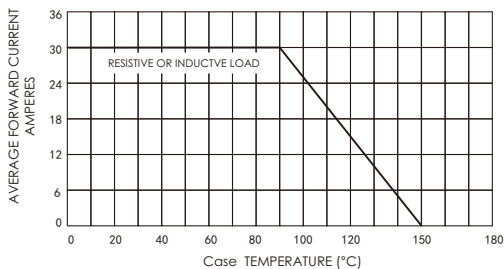


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

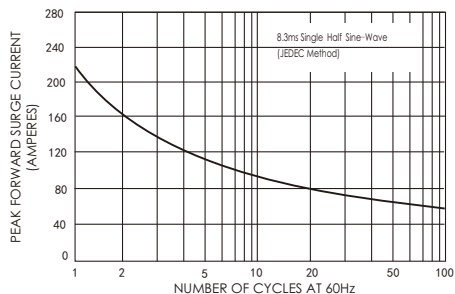


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

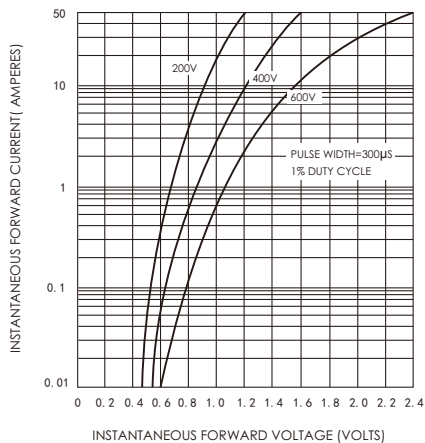


FIG.4-TYPICAL REVERSE CHARACTERISTICS

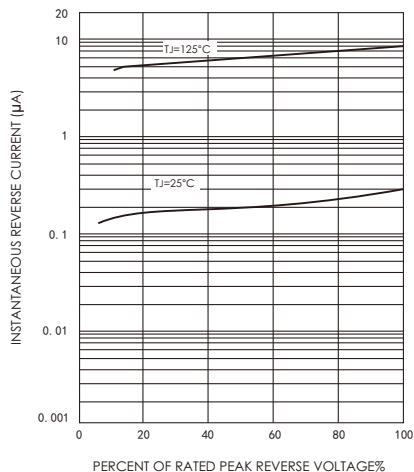


FIG.5-TYPICAL JUNCTION CAPACITANCE

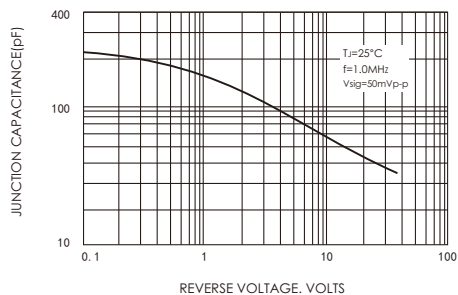


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

