

MURF1620CT THRU MURF1660CT

GLASS PASSIVATED SUPER FAST RECTIFIER

Reverse Voltage - 200 -600 Volts

Forward Current - 16.0Amperes



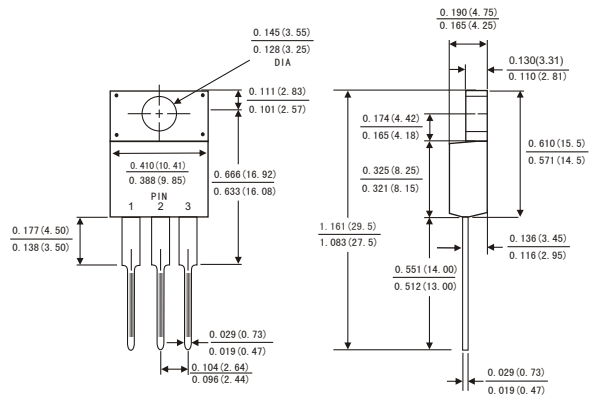
SEMICONDUCTOR

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



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	VDC	200	400	600	Volts
Maximum average forward rectified current(see Fig.1)	Per leg	8.0			Amps
	Total device	16.0			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	100			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)	$T_a = 25^{\circ}C$	5	10		uA
	$T_a = 125^{\circ}C$	500			
Maximum Reverse Recovery Time (Note 2)	T_{rr}	35			ns
Typical thermal resistance (Note 3)	$R_{\theta JC}$	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: 30μs 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 MURF1620 THRU MURF1660

FIG.1-FORWARD CURRENT DERATING CURVE

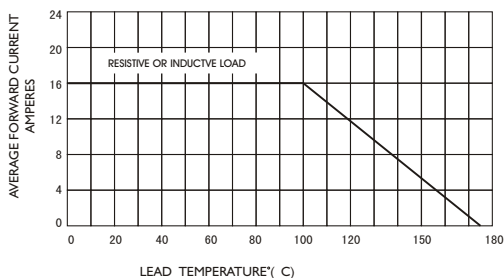


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

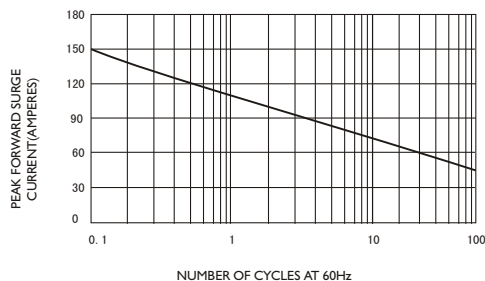


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

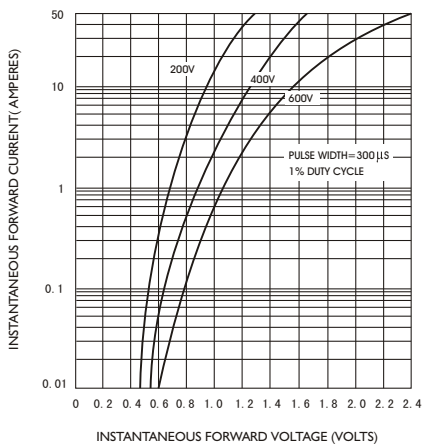


FIG.4-TYPICAL REVERSE CHARACTERISTICS

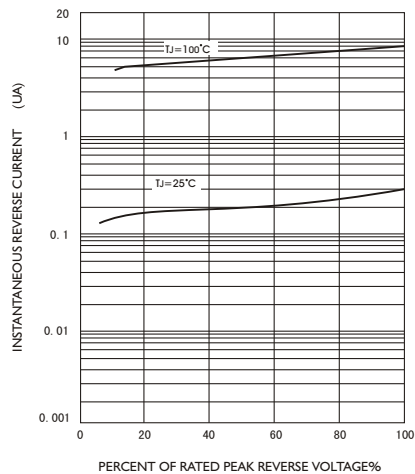


FIG.5-TYPICAL JUNCTION CAPACITANCE

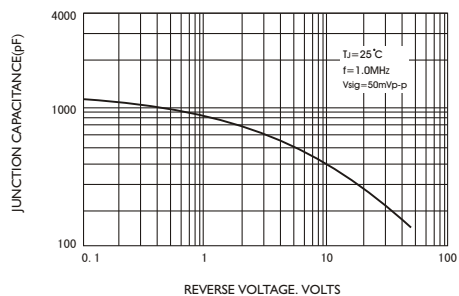


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

