

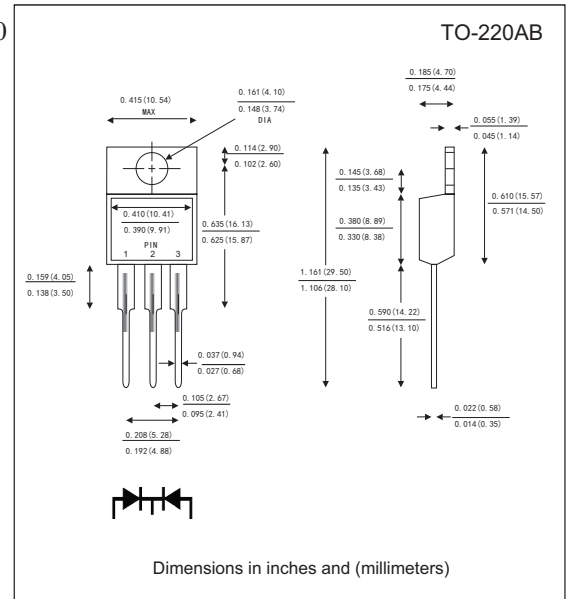
GLASS PASSIVATED SUPER FAST RECTIFIER

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:20°C/106 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2002 95//EC and WEEE 2002 96//EC

MECHANICAL DATA

- Case: JEDEC TO-220AC 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	MUR 1520CT	MUR 1540CT	MUR 1560CT	Units
Maximum repetitive peak reverse voltage	VRRM	200	400	600	Volts
Maximum RMS voltage	VRMS	140	280	420	Volts
Maximum DC blocking voltage	VDC	200	400	600	Volts
Maximum average forward rectified current(see Fig.1)	Per leg	7.5			Amps
	Total device	15			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150			Amps
Maximum instantaneous forward voltage at 10.0 A(Note 1)	VF	0.975	1.3	1.5	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _A =25°C	5	10		μA
	T _A =125°C	500			
Maximum Reverse Recovery Time (Note 2)	T _{rr}	35			ns
Typical thermal resistance (Note 3)	R _θ /C	2.5			°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: 300s pulse width,1% duty cycle
2. Reverse recovery test conditions I =0.5 A,IF=1.0A, Irr=0.25 A
3. Thermal resistance from junction to case

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RATINGS AND CHARACTERISTIC CURVES MUR1520C - MUR1560CT

FIG.1-FORWARD CURRENT DERATING CURVE

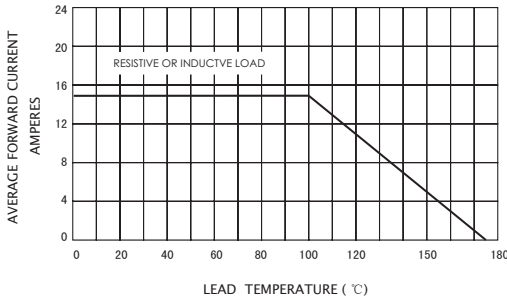


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

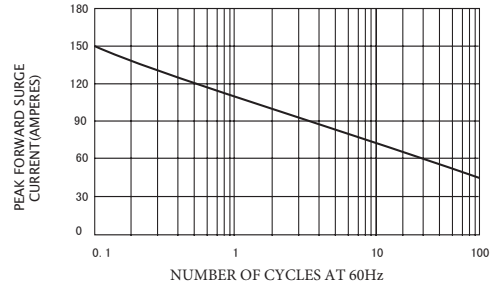


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

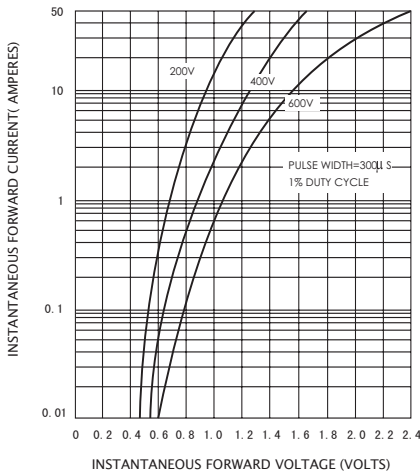


FIG.4-TYPICAL REVERSE CHARACTERISTICS

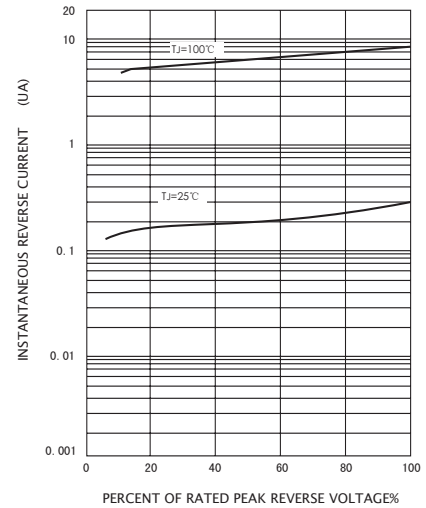


FIG.5-TYPICAL JUNCTION CAPACITANCE

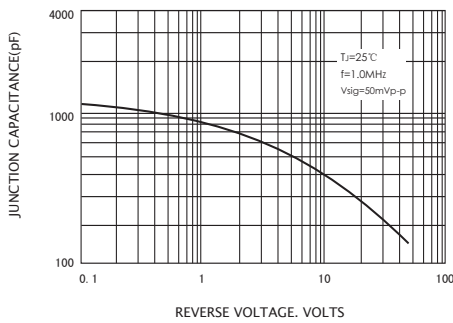
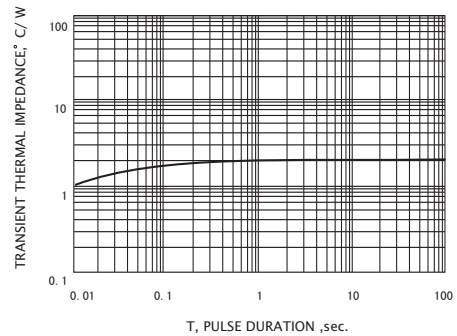


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.