

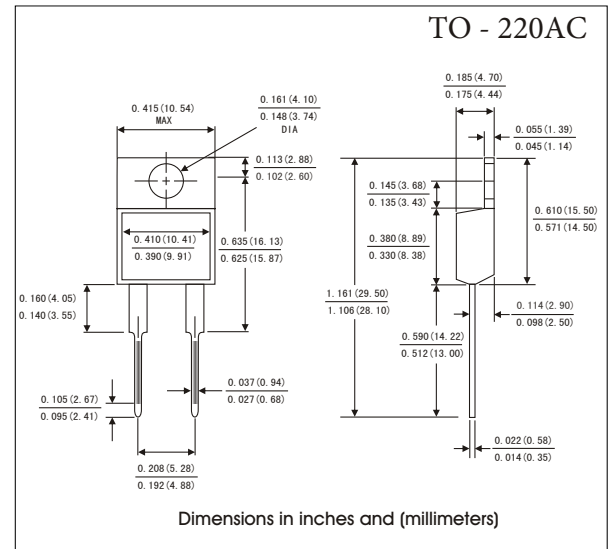
GLASS PASSIVATED SUPER FAST RECTIFIER

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:260°C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2002/95/EU 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%.)

PARAMETER		Symbols	MUR1620	MUR1640	MUR1660	Units
Maximum repetitive peak reverse voltg		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(Fig.1)		I _(AV)	16.0			Amps
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)		I _{FSM}	120			Amps
Maximum instantaneous forward voltage at 16 .0 A(Note1)		V _F	0.98	1.3	1.7	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note1)	Ta=25 C°	I _R	5	10		uA
	Ta=125 C°		500			
Maximum Reverse Recovery Time(Note 2)		T _{rr}	35			ns
Typical thermal resistance(Note 3)		R _θ JC	2.5			° C/ W
Operating junction temperature range		T _J	-65 to +175			°C
Storage temperature range		T _{STG}	-65 to +175			°C

Notes:

- Pulse test:300 μ s pulse width,1% duty cycle.
- Reverse recovery test conditions IF=0.5A,IR=1.0A,Irr=0.25A
- Thermal resistance from junction to case

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RATINGS AND CHARACTERISTIC CURVES MUR1620 - MUR1660

FIG.1-FORWARD CURRENT DERATING CURVE

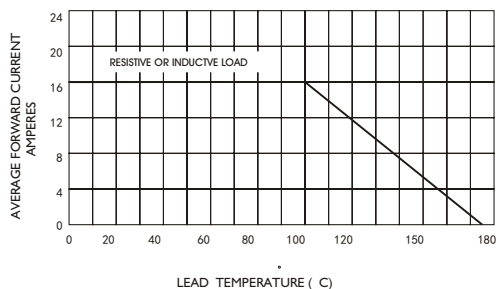


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

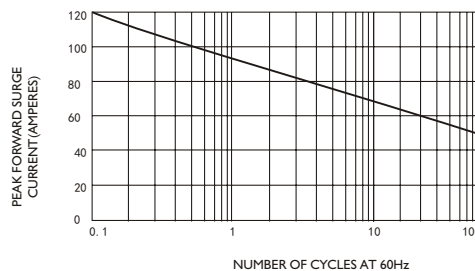


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

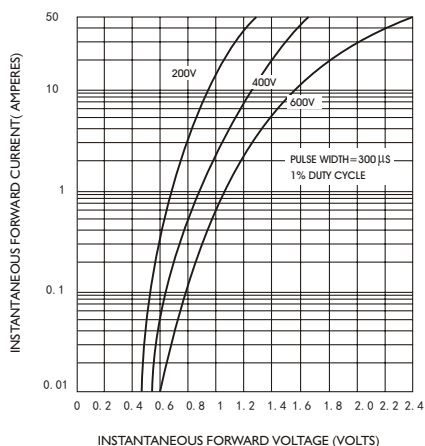


FIG.4-TYPICAL REVERSE CHARACTERISTICS

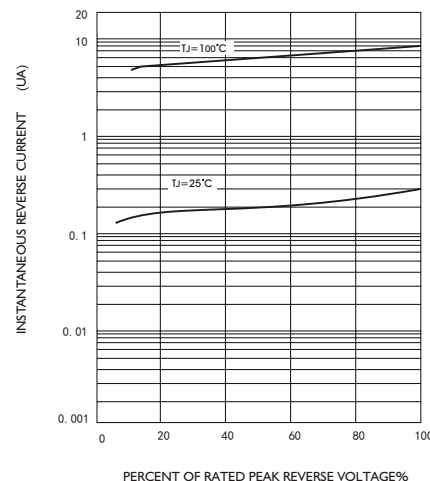


FIG.5-TYPICAL JUNCTION CAPACITANCE

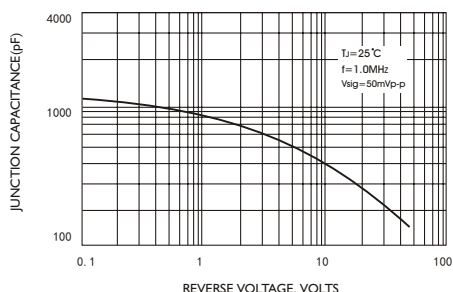
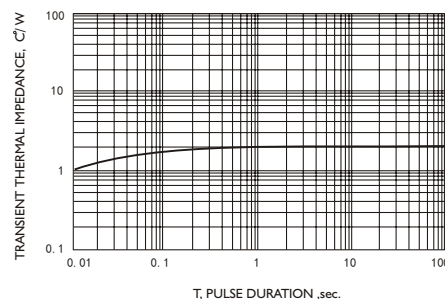


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



Disclaimer

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