

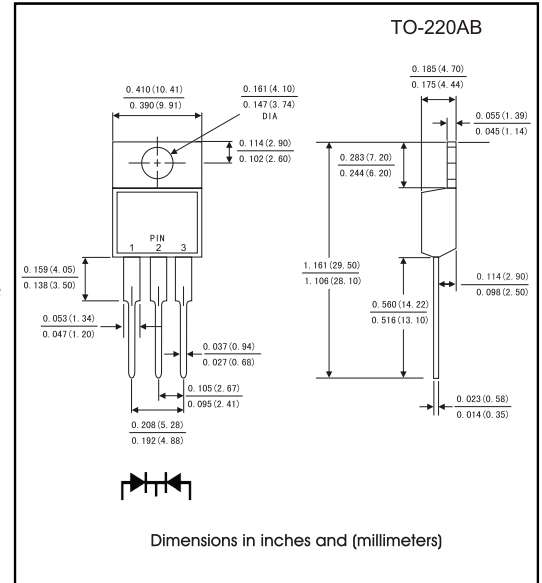
GLASS PASSIVATED SUPER FAST RECTIFIER

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/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: JEDEC TO-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 RATING AND ELECTRICAL CHARACTERISTICS

- Rating at 25 °C ambient temperature unless otherwise specified, Single phase , half wave, resistive or inductive load.
For capacitive load, derate by 20%.

PARAMETER		Symbols	MUR1620CT	MUR1640CT	MUR1660CT	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(Fig.1)	Per leg	$I_{(AV)}$	8.0			Amps
	Total Device		16.0			
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)		I_{FSM}	150			Amps
Maximum instantaneous forward voltage at 16.0 A(Note1)		V_F	0.975	1.3	1.5	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)		$R_{\theta JC}$	2.5			°C/ W
Operating junction temperature range		T_J	-65 to +175			°C
Storage temperature range		T_{STG}	-65 to +175			°C

Notes:

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

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RATING AND CHARACTERISTIC CURVES MUR1620CT - MUR1660CT

FIG.1-FORWARD CURRENT DERATING CURVE

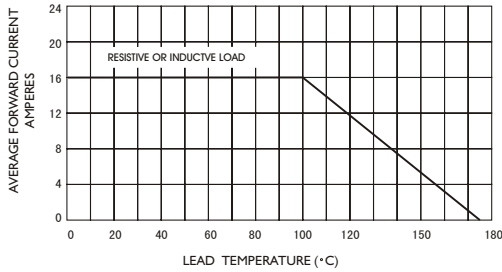


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

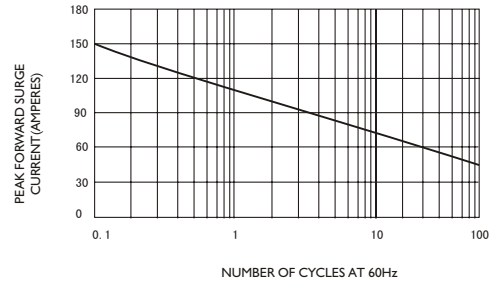


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

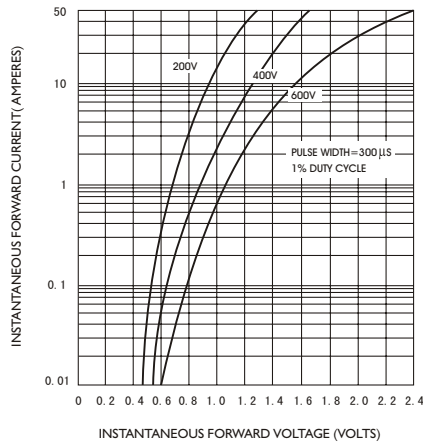


FIG.4-TYPICAL REVERSE CHARACTERISTICS

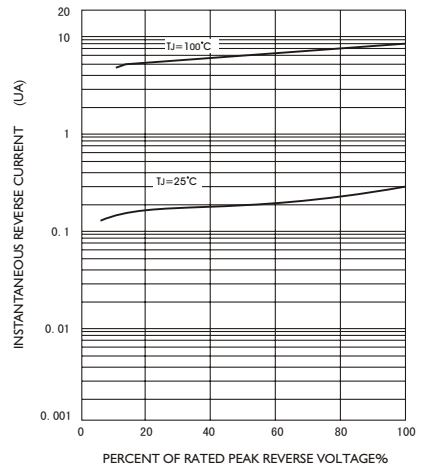


FIG.5-TYPICAL JUNCTION CAPACITANCE

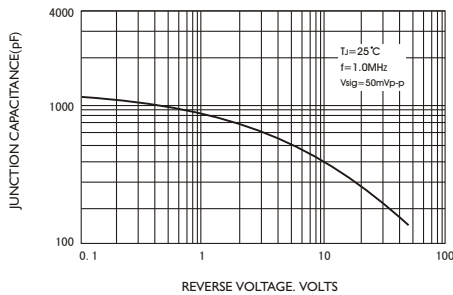
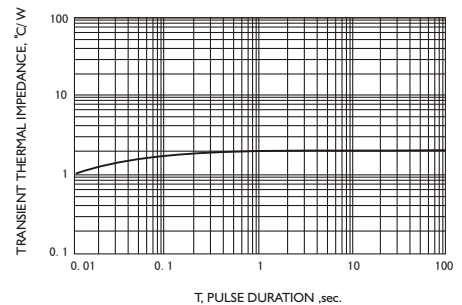


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



Disclaimer

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