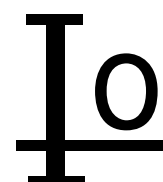


MUR1620 THRU MUR1660

GLASS PASSIVATED SUPER FAST RECTIFIER

Forward Current - 16.0Amperes



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
- * Lead Free Finish/RoHS Compliant

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: 1.81 gram

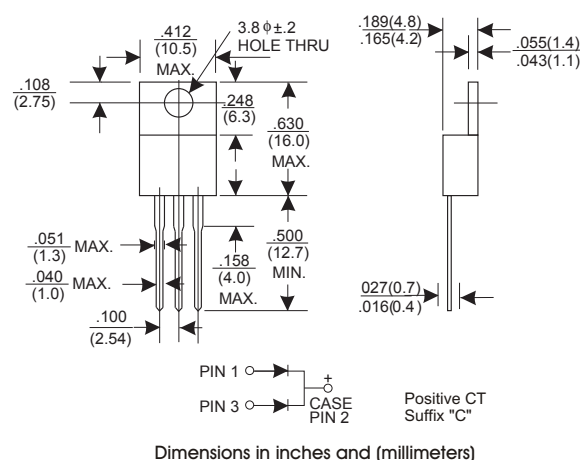
VOLTAGE RANGE

200 to 600Volts

CURRENT

16.0Ampere

TO-220AB



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 1620	MUR 1640	MUR 1660	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)		l(AV)	16.0			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		lFSM	100			Amps
Maximum instantaneous forward voltage at 8.0 A(Note 1)		VF	0.95	1.3	1.7	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _A = 25℃	IR	5	10		uA
	T _A = 125℃		500			
Maximum Reverse Recovery Time (Note 2)		Trr	35			ns
Typical thermal resistance (Note 3)		RθJC	2.5			℃/W
Operating junction temperature range		TJ	-40 to +150			℃
Storage temperature range		TSTG	-40 to +150			℃

- 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



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RATINGS AND CHARACTERISTIC CURVES MUR1620 THRU MUR1660(SINGLE CHIP)

FIG.1-FORWARD CURRENT DERATING CURVE

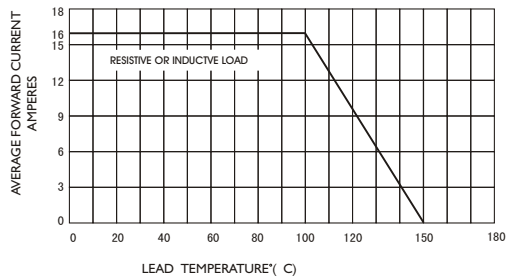


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

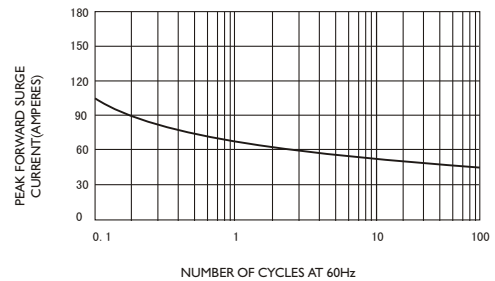


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

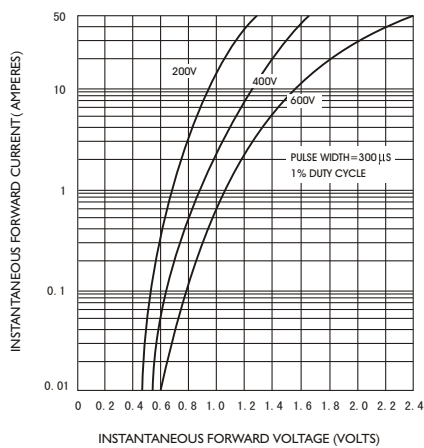


FIG.4-TYPICAL REVERSE CHARACTERISTICS

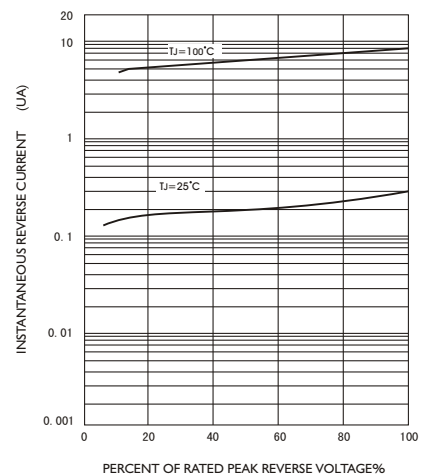


FIG.5-TYPICAL JUNCTION CAPACITANCE

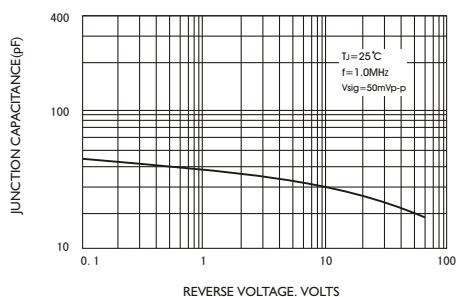


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

