

CURRENT 16 Ampere
VOLTAGE RANG 200 to 1000 Volts

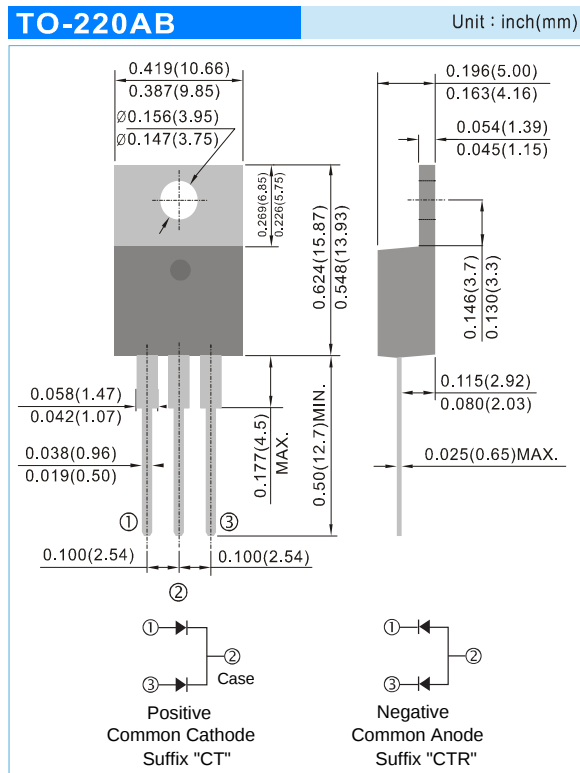
MUR1660CT THRU MUR16100CT

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- Super fast recovery times, high voltage.
- Epitaxial chip construction.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: TO-220AB Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Standard packaging: Any
- Weight: 0.067 ounces, 1.89 grams.



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MUR 1620CT	MUR 1640CT	MUR 1660CT	MUR 1680CT	MUR 16100CT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1000	V
Maximum Average Forward Current at T _c =90°C	I _{F(AV)}	16					A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	175					A
Maximum Forward Voltage at 8A	V _F	0.95	1.3	1.5	1.7	1.9	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _j =25°C T _j =100°C	I _R	10 500					μA
Maximum Reverse Recovery Time (Note 2)	t _{rr}	35			50		ns
Typical Junction Capacitance (Note 1)	C _J	62					pF
Typical Thermal Resistance	R _{θJC}	3					°C / W
Operating and Storage Temperature Range	T _J ,T _{STG}	-50 to +150					°C

NOTES :

- Measured at 1 MHz and applied reverse voltage of 4 VDC.
- Reverse Recovery Test Conditions : $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{rr} = 0.25\text{A}$.
- Both Bonding and Chip structure are available.

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RATING AND CHARACTERISTIC CURVES

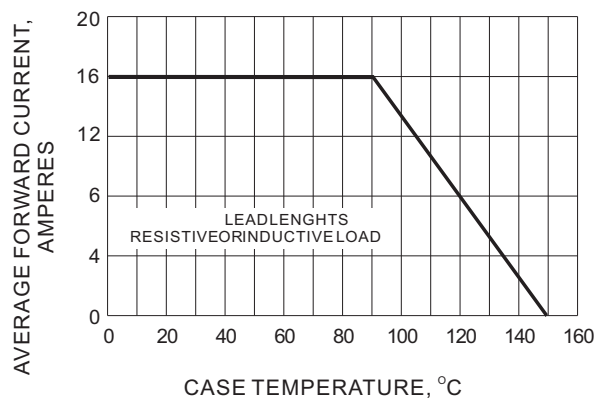


Fig.1- FORWARD CURRENT DERATING CURVE

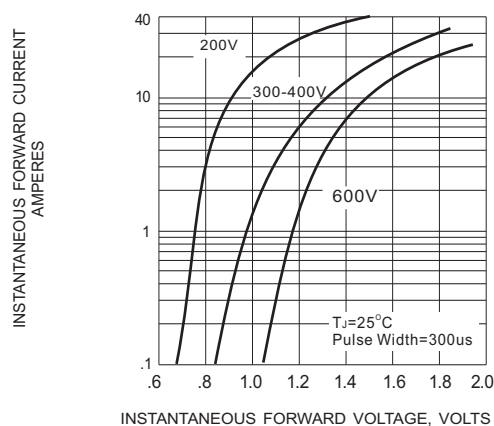


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

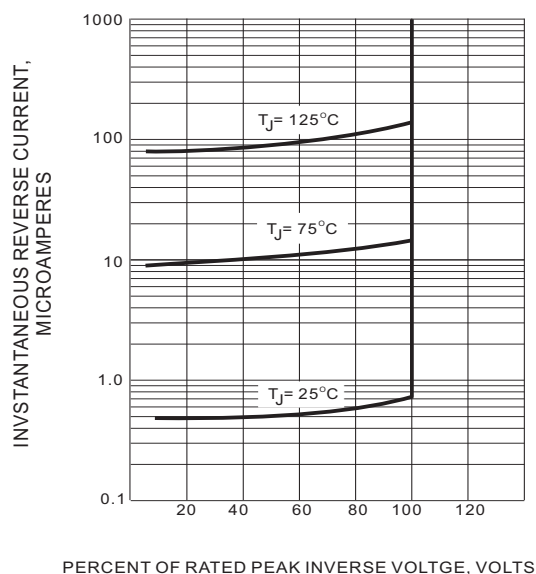


FIG.3 TYPICAL REVERSE CHARACTERISTICS

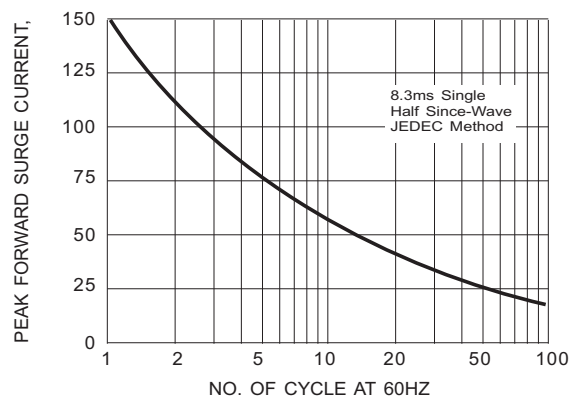


Fig.4- MAXIMUM NON - REPETITIVE SURGE CURRENT

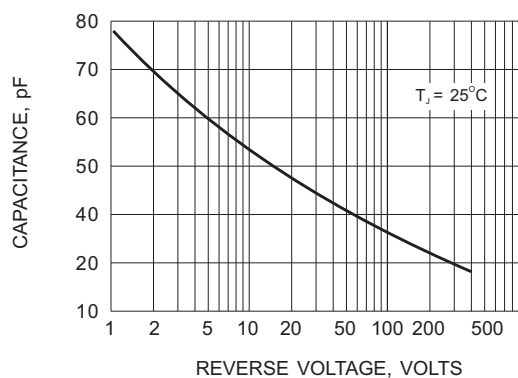


Fig.5- TYPICAL JUNCTION CAPACITANCE