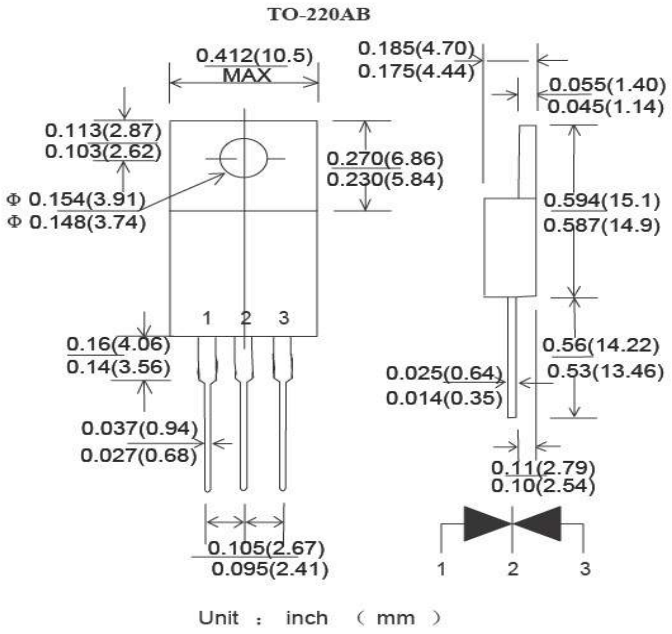
MUR1610CT THRU MUR1660CT

VOLTAGE RANGE100 to 600 Volts CURRENT 16.0 Ampere

16.0 A Switchmode Power Rectifiers



FEATURES

* Low forward voltage drop
* High current capability
* High reliability
* Low Power Loss，High Efficiency
* Ultrafast 35 and 60 Nanosecond Recovery times

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 1.98 grams

Maximum Ratings and Electrical Characteristics

* Rating at 25 ℃ ambient temperature unless otherwise specified.
* Single phase, half wave, 60 Hz, resistive or inductive load.
* For capacitive load, derate current by 20%

Type Number	Symbol	MUR 1610CT	MUR 1620CT	MUR 1640CT	MUR 1660CT	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	100	200	400	600	V
Maximum RMS Voltage	VRMS	70	140	280	420	V
Maximum DC Blocking Voltage	VDC	100	200	400	600	V
Maximum Average Forward Rectified Current	IF	16				A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	100				A
Maximum Instantaneous Forward Voltage @8A	VF	1.0		1.3	1.7	V
Maximum Reverse Current @ Rated VR TA=25 ℃ TA=125℃	IR	10 500				uA
Typical Junction Capacitance (Note 1)	Cj	150				pF
Typical Thermal Resistance(Note 2)	RθjA	30				℃/w
Operating and Storage Temperature Range	TJ	-65～+150				℃
Maximum reverse recovery time (Note 3)	Trr	50				nS

NOTE1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
NOTE2. Leads maintained at ambient temperature at a distance of 9.5mm from the case
NOTE3. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.

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RATINGS AND CHARACTERISTIC CURVES (MUR1610CT THRU MUR1660CT)

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

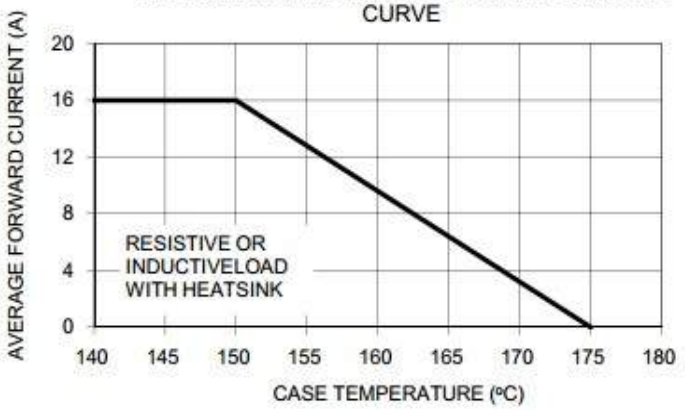

FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

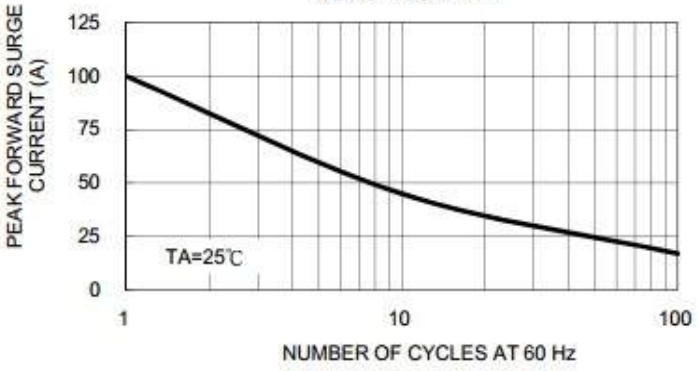

FIG. 5 TYPICAL JUNCTION CAPACITANCE

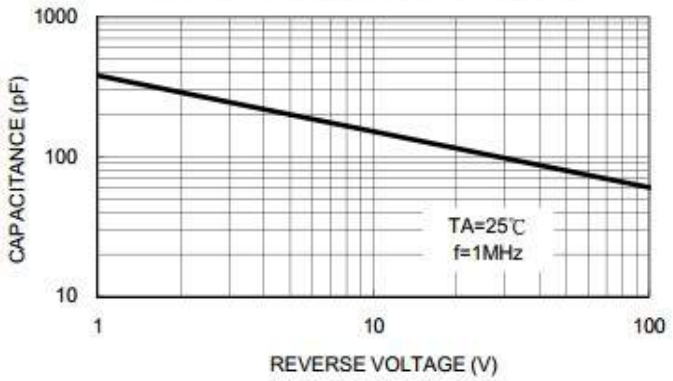

FIG. 4 TYPICAL REVERSE CHARACTERISTICS

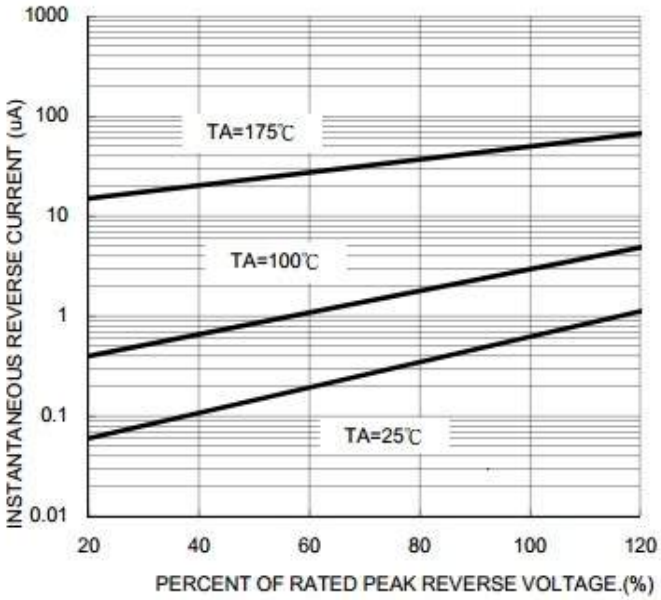

FIG. 3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

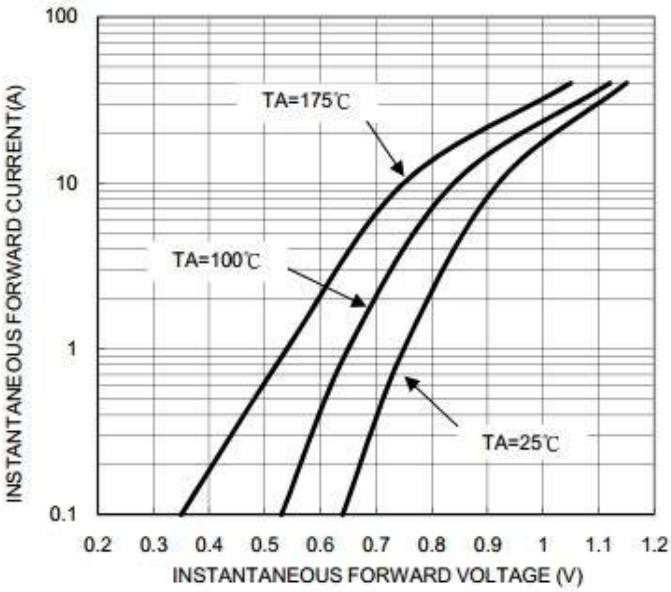

FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM