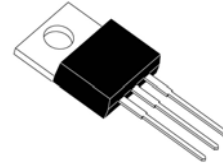


# MUR1610CT THRU MUR1660CT

16.0 A Switchmode Power Rectifiers

VOLTAGE RANGE 100 to 600 Volts

CURRENT 16.0 Ampere

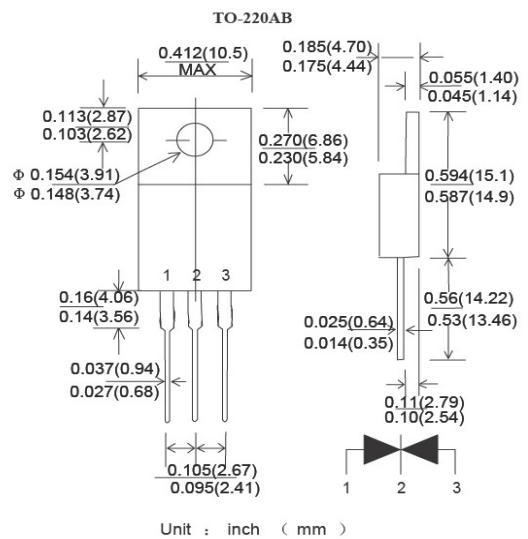


## FEATURES

- \* 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 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 1.98 grams



## Maximum Ratings and Electrical Characteristics

- \* Rating 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%

Type Number	Symbol	MUR 1610CT	MUR 1615CT	MUR 1640 CT	MUR 1660CT	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	100	150	400	600	V
Maximum RMS Voltage	VRMS	70	120	280	420	V
Maximum DC Blocking Voltage	VDC	100	150	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 °C TA=125°C	IR	10 500				uA
Typical Junction Capacitance (Note 1)	Cj	150				pF
Typical Thermal Resistance(Note 2)	RθjA	30				°C/w
Operating and Storage Temperature Range	TJ	-65~+150				°C
Maximum reverse recovery time (Note 3)	Trr	35				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.

## RATINGS AND CHARACTERISTIC CURVES (MUR1610CT THRU MUR1660CT)

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

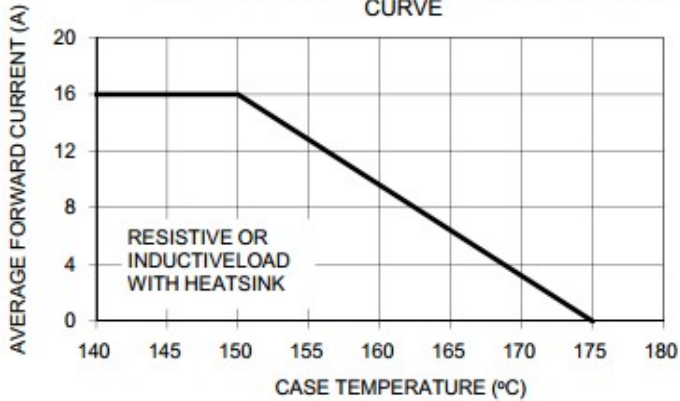


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

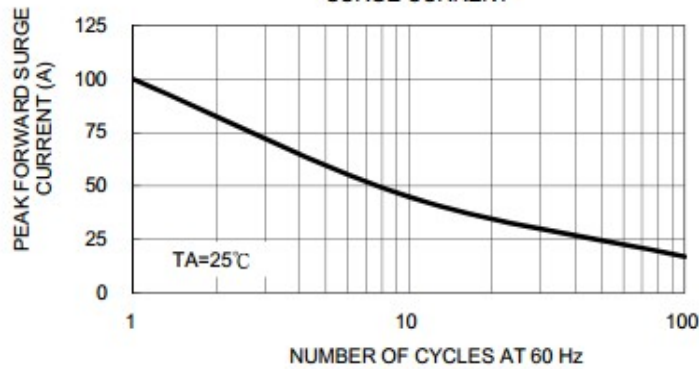


FIG. 5 TYPICAL JUNCTION CAPACITANCE

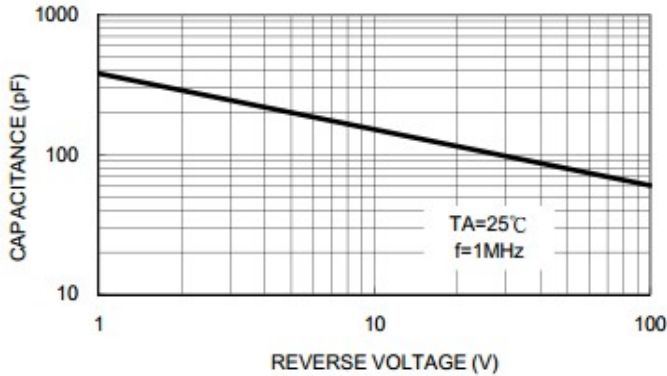


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

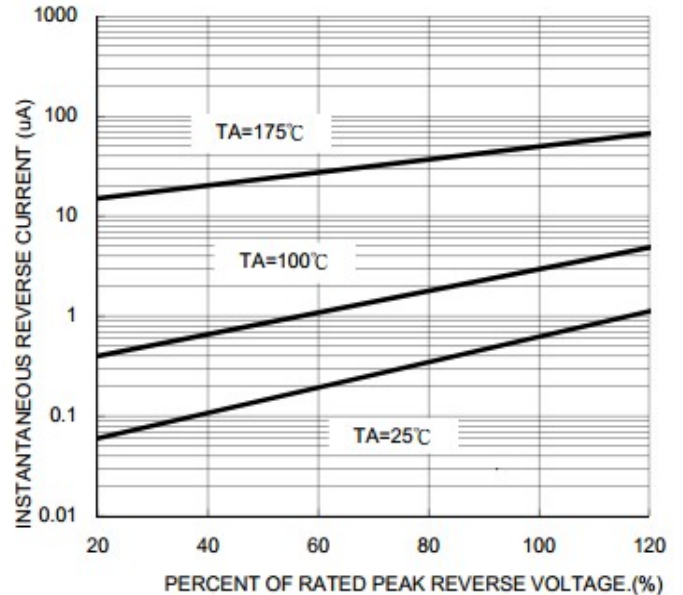


FIG. 3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

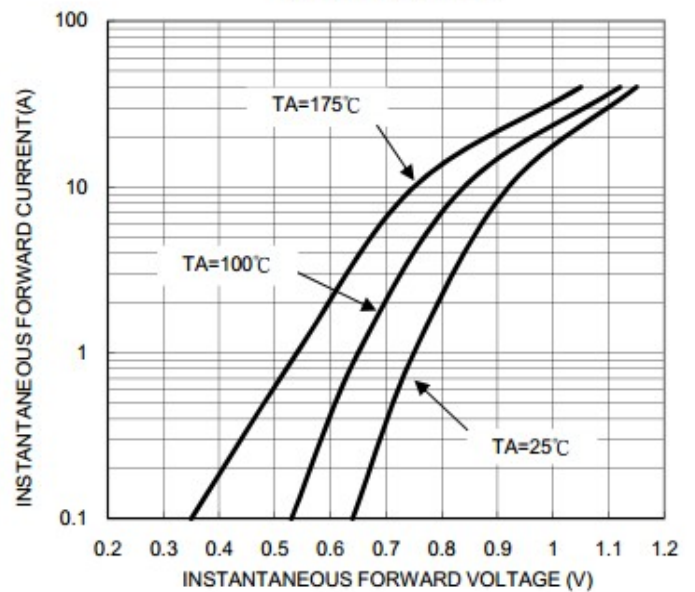


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

## Marking



TO-220AB

## S structure

