

# MUR1010CT – MUR1060CT

## 10 Amps Super Fast Recovery



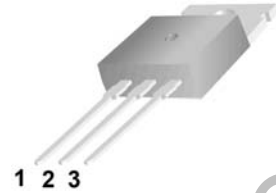
### MUR1010CT – MUR1060CT

#### Features:

- High surge capacity
- Low Forward Voltage Drop.
- High Current Capability.
- Super Fast Switching Speed For High Efficiency



TO-220



1. Anode 2. Cathode 3. Anode

#### Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	MUR 1010 CT	MUR 1015 CT	MUR 1020 CT	MUR 1040 CT	MUR 1060 CT	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	100	150	200	400	600	V
Working Peak Reverse Voltage	V <sub>RWM</sub>	70	105	140	280	420	V
DC Blocking Voltage	V <sub>R(DC)</sub>	100	150	200	400	600	V
Average Rectified Forward Current	I <sub>F(AV)</sub>	Per Leg		5			A
		Total Device		10			
Peak Rectified Forward Current	I <sub>FM</sub>	10					A
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half wave, single phase, 60 Hz)	I <sub>FSM</sub>	150					A
Operating Junction Temperature and Storage Temperature	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150					°C
Maximum Thermal Resistance, Junction-to-Case (Per Leg)	R <sub>θJC</sub>	2.0					°C/W

#### ELECTRICAL CHARACTERISTICS (Per Diode Leg)

Parameter	Symbol	MUR 1010 CT	MUR 1015 CT	MUR 1020 CT	MUR 1040 CT	MUR 1060 CT	Unit
Forward Voltage (Note 1) (I <sub>F</sub> = 5A, T <sub>C</sub> = 25°C)	V <sub>F</sub>	0.975			1.3	1.70	V
Maximum Instantaneous Reverse Current (Note 1) (Rated DC Voltage, T <sub>C</sub> = 25°C) (Rated DC Voltage, T <sub>C</sub> = 125°C)	I <sub>R</sub>	10			500		μA
Maximum Reverse Recovery Time (I <sub>F</sub> = 0.5 A, I <sub>R</sub> = 1.0 A, I <sub>REC</sub> = 0.25 A)	T <sub>RR</sub>	35					ns

Note 1. Pulse Test: Pulse Width = 300 μs, Duty Cycle ≤ 2.0%

Typical Characteristics

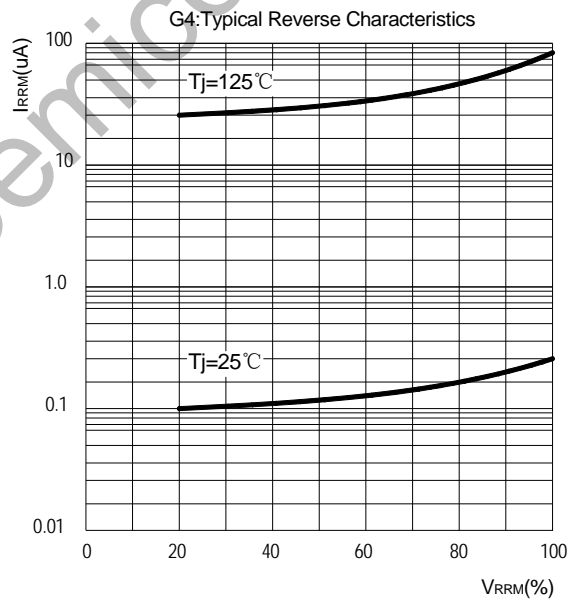
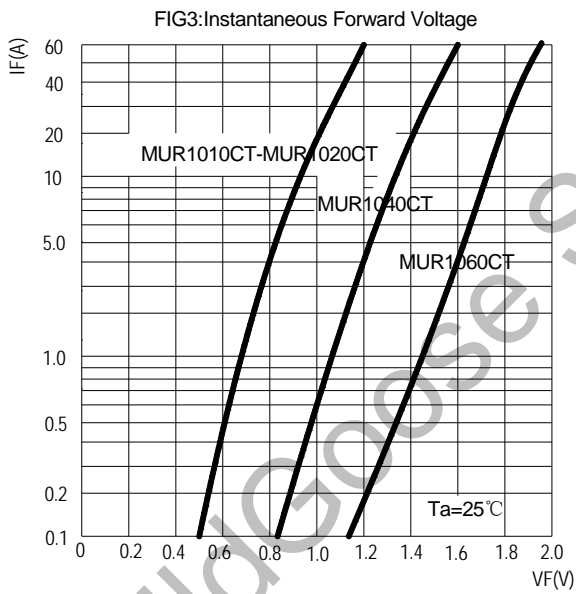
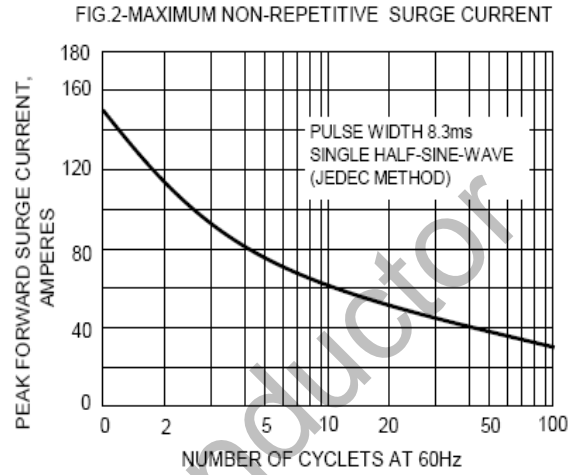
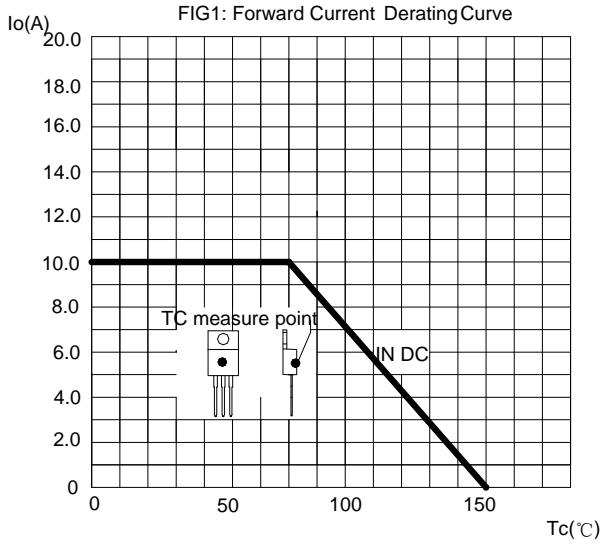
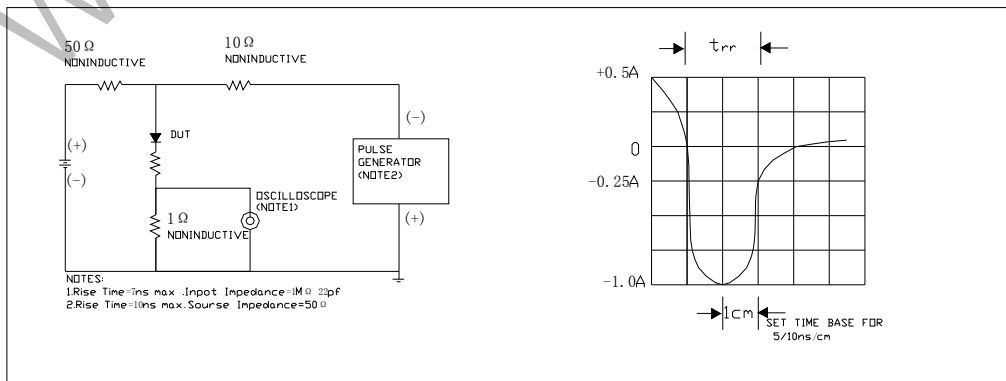


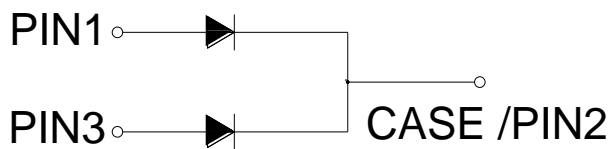
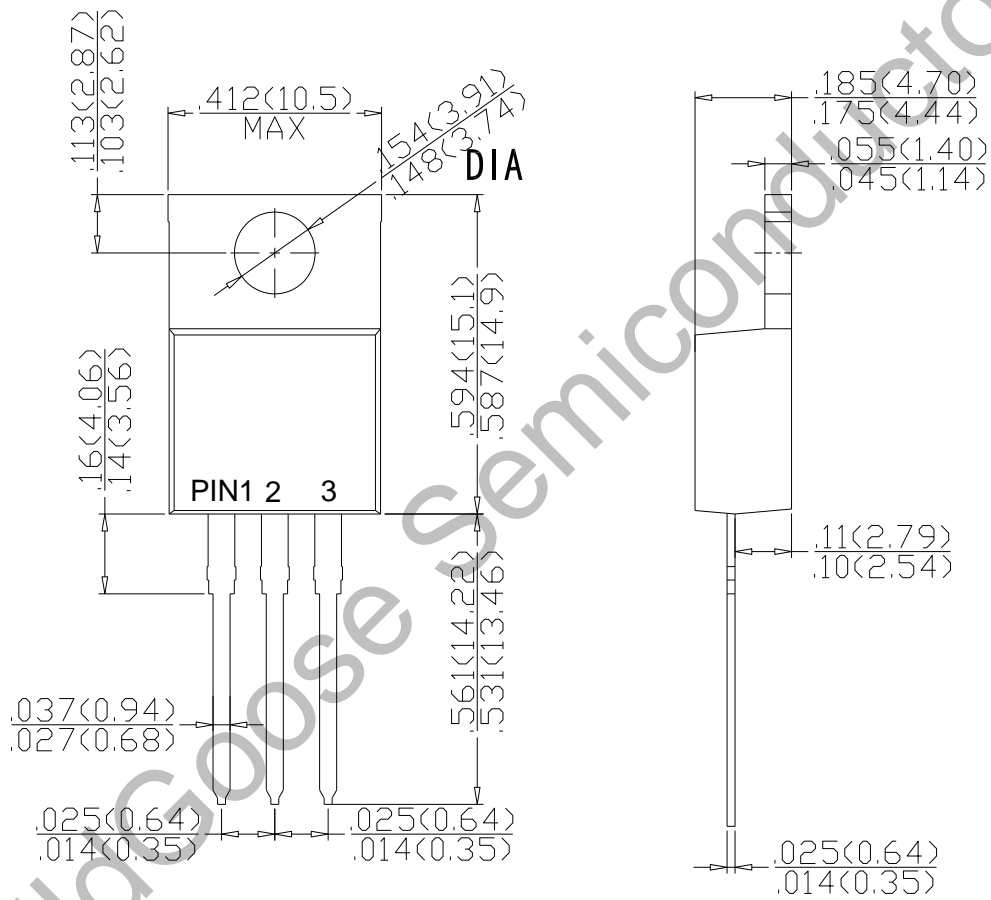
Diagram of circuit and Testing wave form of reverse recovery time



**Package Dimension**

TO-220

Unit: mm



Dimensions in inches and (millimeters)

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