

MUR1010CTR – MUR1060CTR

10 Amps Super Fast Recovery



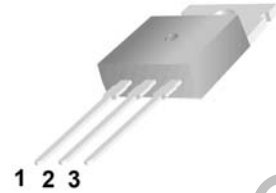
MUR1010CTR – MUR1060CTR

Features:

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



TO-220



1.Cathode 2.Anode 3. Cathode

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

Parameter	Symbol	MUR 1010 CTR	MUR 1015 CTR	MUR 1020 CTR	MUR 1040 CTR	MUR 1060 CTR	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	150	200	400	600	V
Working Peak Reverse Voltage	V_{RWM}	70	105	140	280	420	V
DC Blocking Voltage	$V_{R(DC)}$	100	150	200	400	600	V
Average Rectified Forward Current	$I_{F(AV)}$	Per Leg		5			A
		Total Device		10			
Peak Rectified Forward Current	I_{FM}			10			A
Nonrepetitive Peak Surge Current(Surge applied at rated load conditions half wave, single phase, 60 Hz)	I_{FSM}			150			A
Operating Junction Temperature and Storage Temperature	TJ, Tstg			-55 to +150			°C
Maximum Thermal Resistance, Junction-to-Case(Per Leg)	$R_{\theta JC}$			2.0			°C/W

ELECTRICAL CHARACTERISTICS (Per Diode Leg)

Parameter	Symbol	MUR 1010 CTR	MUR 1015 CTR	MUR 1020 CTR	MUR 1040 CTR	MUR 1060 CTR	Unit
Forward Voltage (Note 1) ($I_F = 5A, T_C = 25^\circ C$)	V_F	0.975			1.3	1.70	V
Maximum Instantaneous Reverse Current (Note 1) (Rated DC Voltage, $T_C = 25^\circ C$) (Rated DC Voltage, $T_C = 125^\circ C$)	I_R			10 500			μA
Maximum Reverse Recovery Time ($I_F = 0.5 A, I_R = 1.0 A, I_{REC} = 0.25 A$)	T_{RR}			35			ns

Note 1.Pulse Test: Pulse Width = 300 μ s, Duty Cycle $\leq 2.0\%$

Typical Characteristics

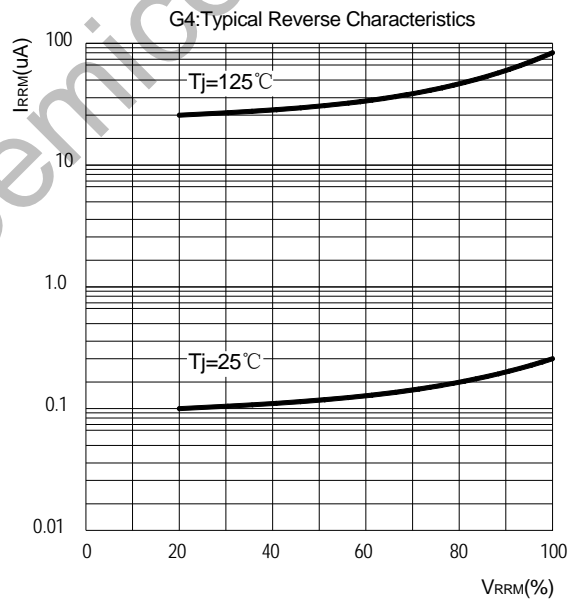
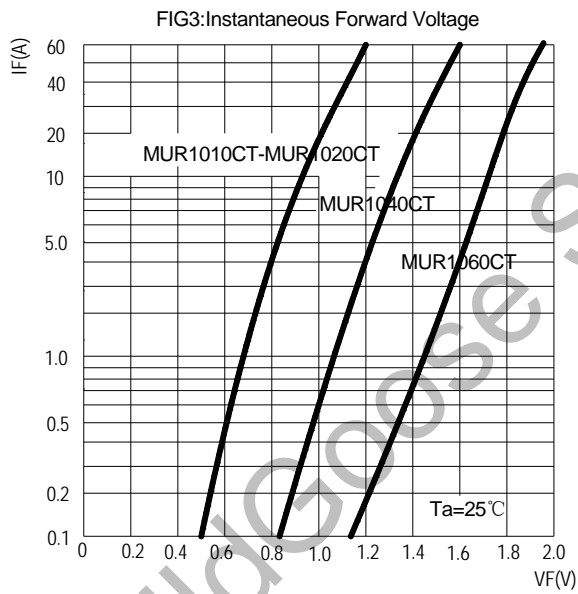
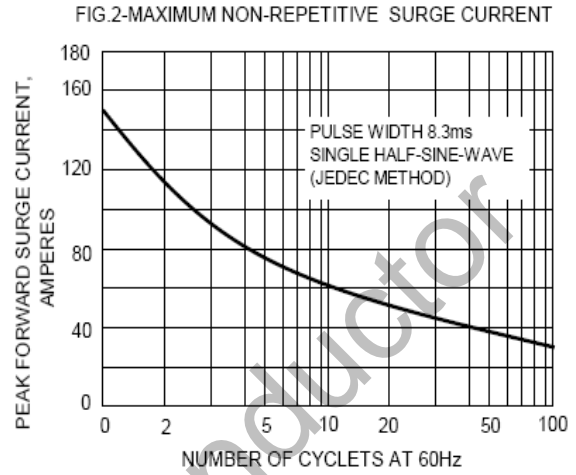
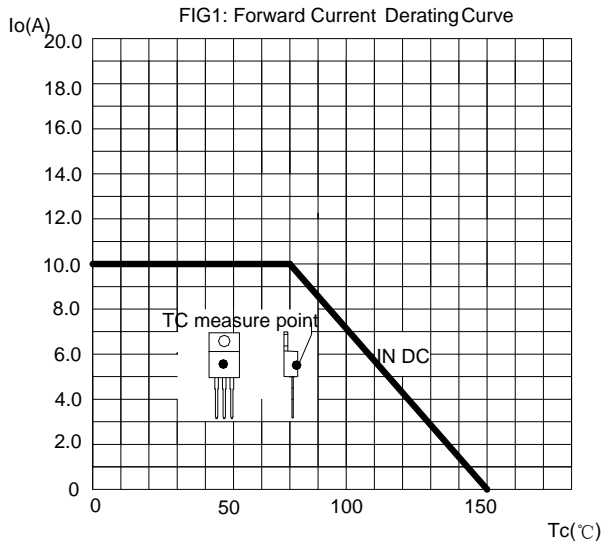
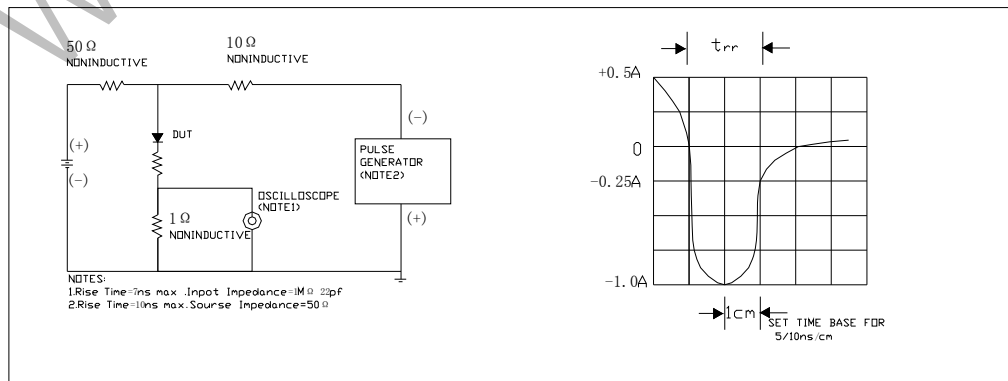


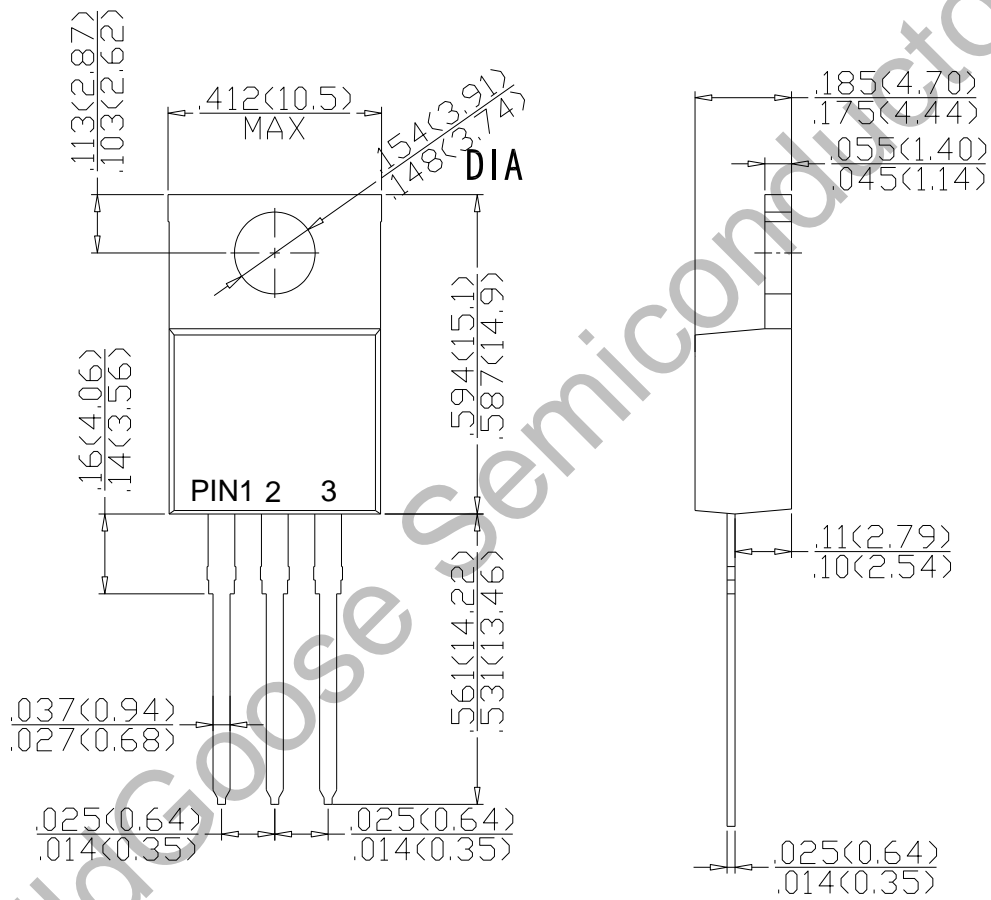
Diagram of circuit and Testing wave form of reverse recovery time



Package Dimension

TO-220

Unit: mm



Dimensions in inches and (millimeters)

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