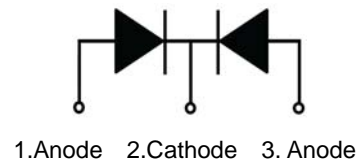
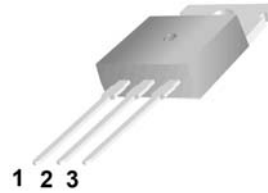




TO-220


Features:

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

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

Parameter	Symbol	MUR 3010 CT	MUR 3015 CT	MUR 3020 CT	MUR 3040 CT	MUR 3060 CT	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	150	200	400	600	V
Working Peak Reverse Voltage	V_{RWM}	70	105	140	240	420	V
DC Blocking Voltage	$V_{R(DC)}$	100	150	200	400	600	V
Average Rectified Forward Current	$I_{F(AV)}$			15			A
Per Leg				30			
Total Device							
Peak Rectified Forward Current (Rated V_R , Square Wave, 20 kHz)	I_{FM}			30			A
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half wave, single phase, 60 Hz)	I_{FSM}			240			A
Operating Junction Temperature and Storage Temperature	T_J, T_{stg}			-55 to +150			°C
Maximum Thermal Resistance, Junction-to-Case (Per Leg)	$R_{\theta JC}$			3.0	2.0		°C/W

ELECTRICAL CHARACTERISTICS (Per Diode Leg)

Parameter	Symbol	MUR 3010 CT	MUR 3015 CT	MUR 3020 CT	MUR 3040 CT	MUR 3060 CT	Unit
Forward Voltage (Note 1) ($I_F = 15\text{ A}, T_C = 25^\circ\text{C}$) ($I_F = 15\text{ A}, T_C = 125^\circ\text{C}$)	V_F	0.975 0.895			1.35 1.20	1.70 1.50	V
Maximum Instantaneous Reverse Current (Note 1) (Rated DC Voltage, $T_C = 25^\circ\text{C}$) (Rated DC Voltage, $T_C = 125^\circ\text{C}$)	I_R	5 250			10 500		μA
Maximum Reverse Recovery Time ($I_F = 0.5\text{ A}, I_R = 1.0\text{ A}, I_{REC} = 0.25\text{ A}$)	T_{RR}	35			35		ns

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

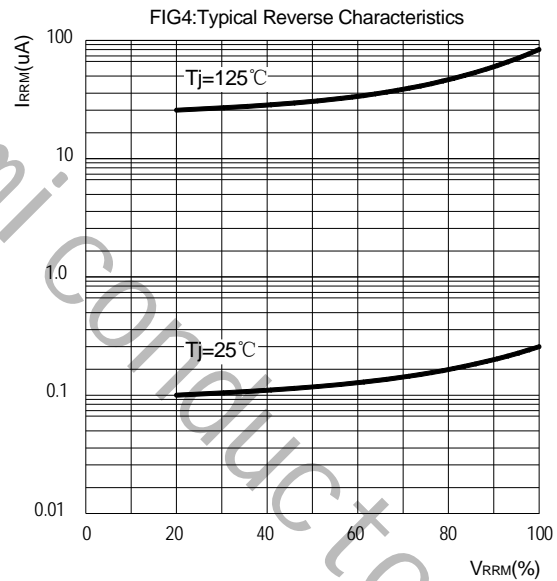
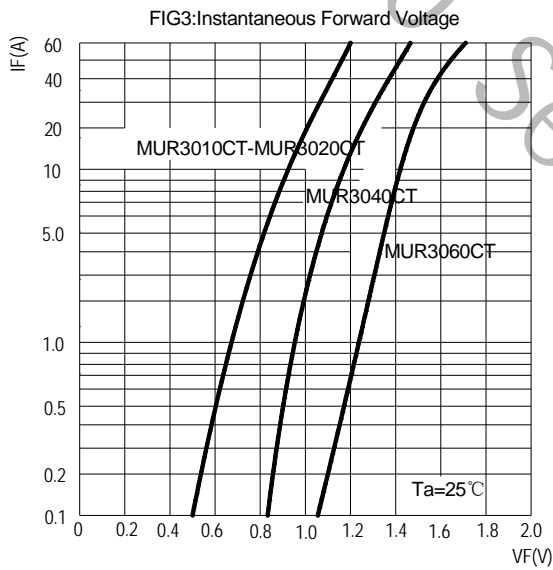
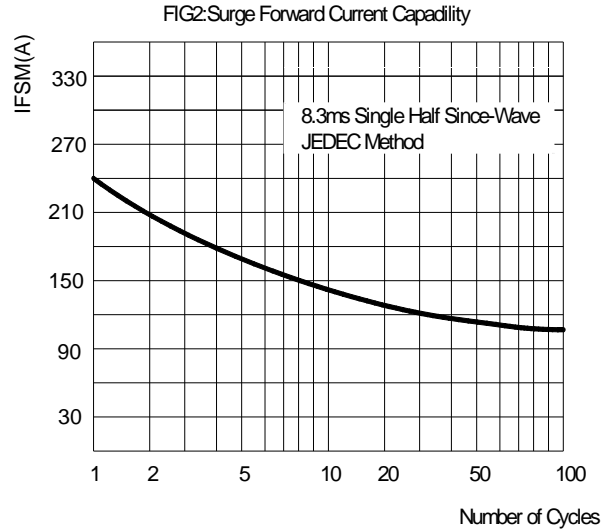
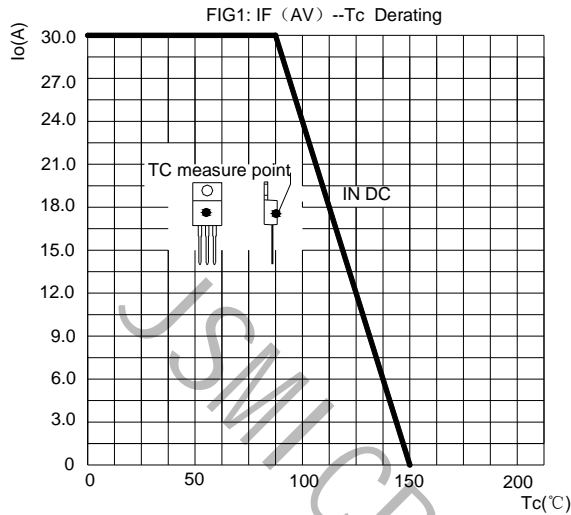
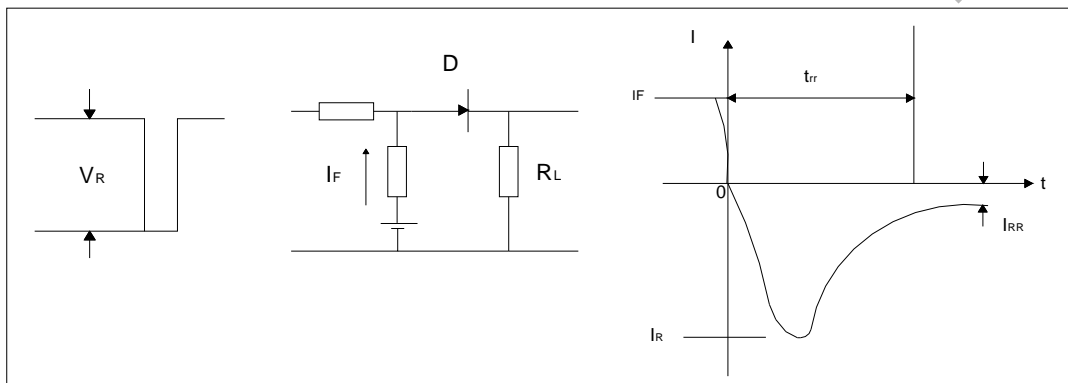
Typical Characteristics


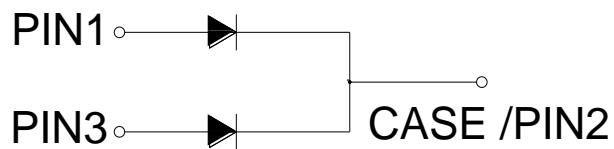
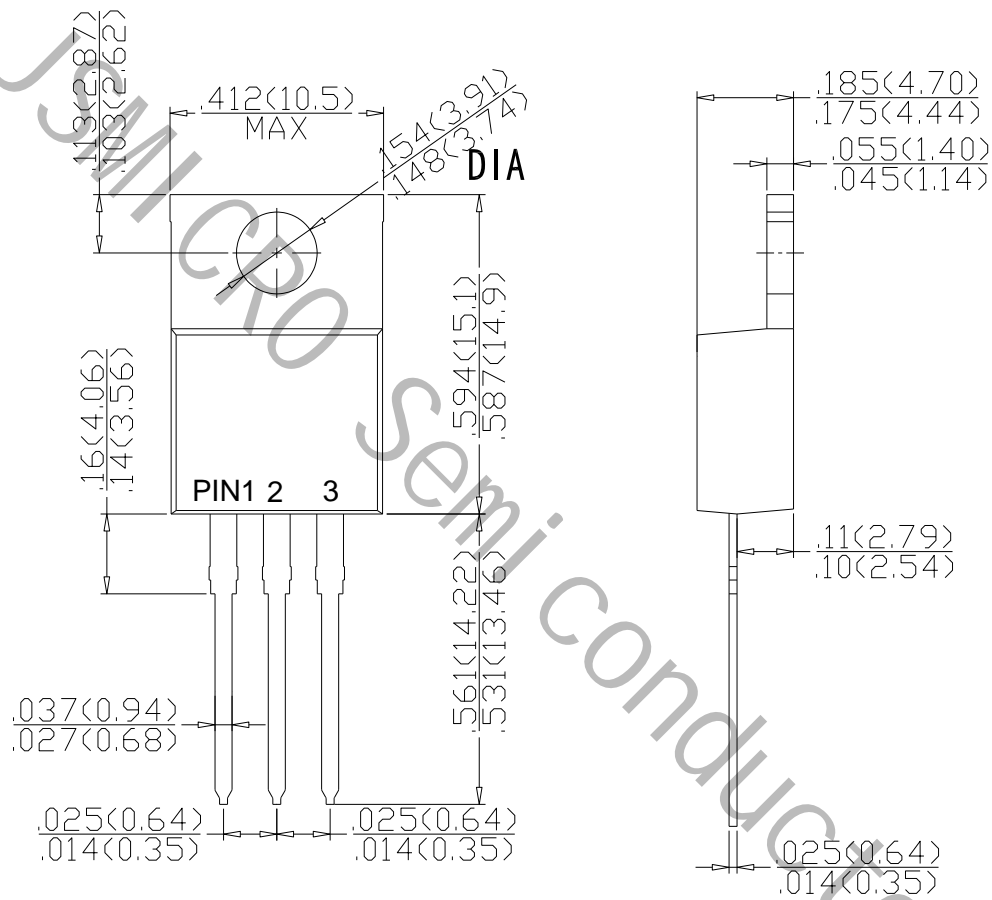
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



Package Dimension

TO-220

Unit: mm



Dimensions in inches and (millimeters)