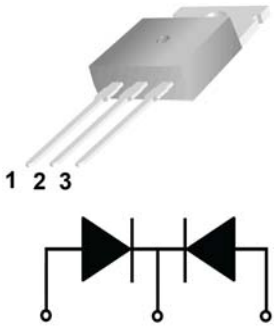
Features:

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

TO-220

RoHS COMPLIANT



1.Anode 2.Cathode 3. Anode

Absolute Maximum Ratings (Ta=25℃ 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 Per Leg / Total Device	$I_{F(AV)}$	15 / 30					A
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	TJ, Tstg	-55 to +150					℃
Maximum Thermal Resistance, Junction−to−Case(Per Leg)	$R_{\theta JC}$	3.0			2.0		℃/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 A, T_C = 25°C) / (I_F =15 A, T_C = 125°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°C) / (Rated DC Voltage, T_C = 125°C)	I_R	5 / 250			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			35		ns

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

Typical Characteristics

FIG1: IF（AV）--Tc Derating

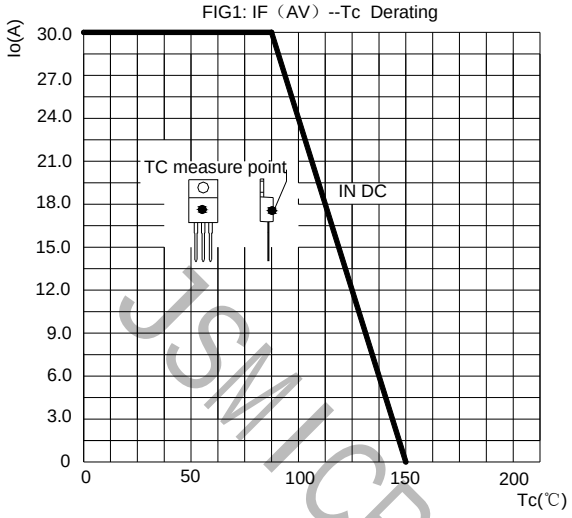


FIG2:Surge Forward Current Capadility

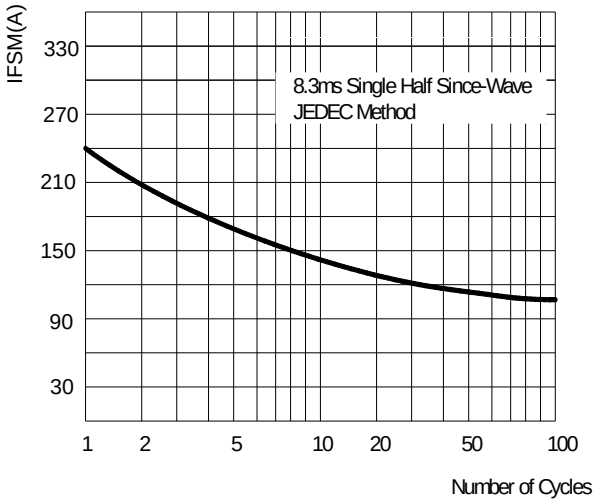


FIG3:Instantaneous Forward Voltage

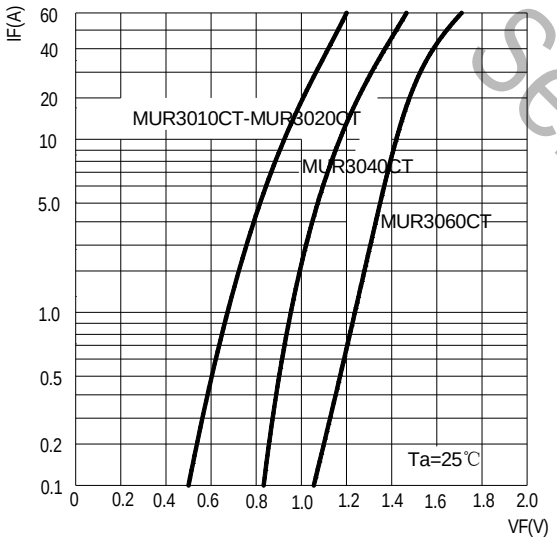


FIG4:Typical Reverse Characteristics

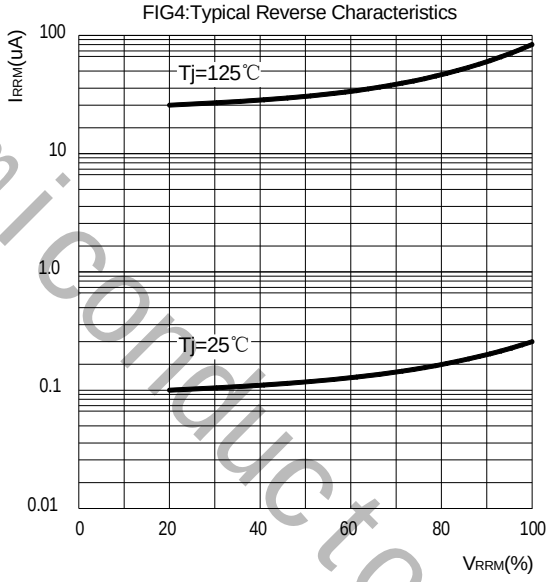
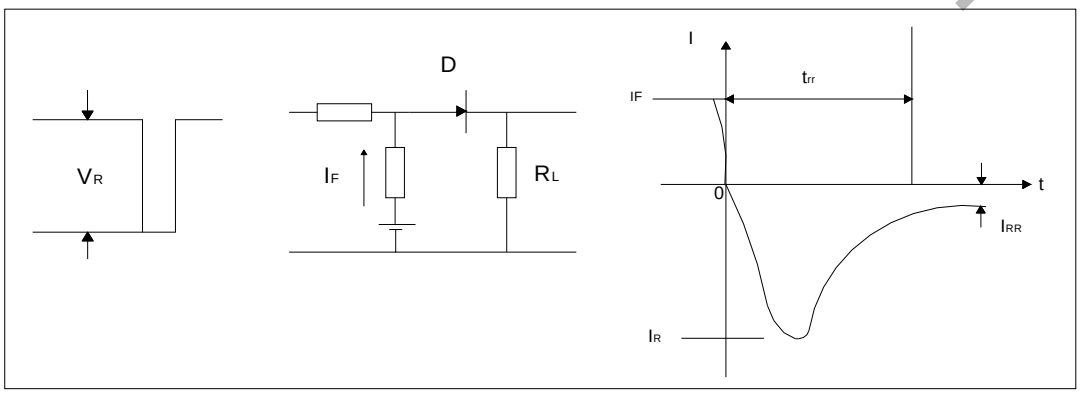


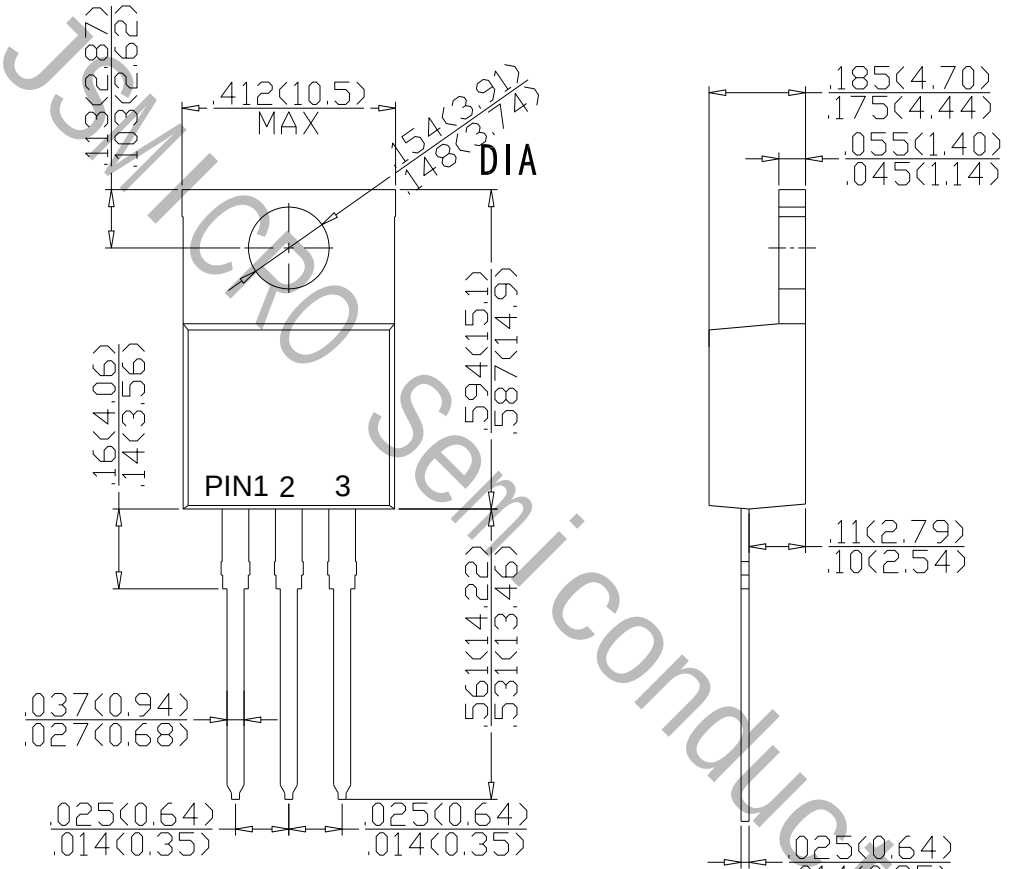
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

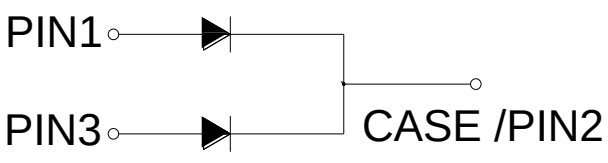


Package Dimension

TO-220

Unit: mm





Dimensions in inches and (millimeters)