Features:

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

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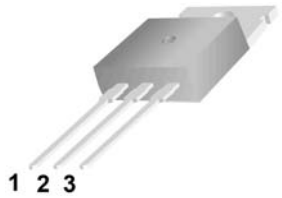
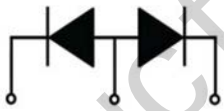




1.Cathode 2.Anode 3. Cathode

Absolute Maximum Ratings (Ta=25℃ unless otherwise noted)

Parameter	Symbol	MUR 1610 CTR	MUR 1615 CTR	MUR 1620 CTR	MUR 1640 CTR	MUR 1660 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 Per Leg / Total Device	$I_{F(AV)}$	8 / 16					A
Peak Rectified Forward Current Per Diode Leg (Rated VR, Square Wave, 20 kHz)	I_{FM}	16					A
Nonrepetitive Peak Surge Current(Surge applied at rated load conditions half wave, single phase, 60 Hz)	I_{FSM}	180					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 1610 CTR	MUR 1615 CTR	MUR 1620 CTR	MUR 1640 CTR	MUR 1660 CTR	Unit
Forward Voltage (Note 1)(I_F = 8.0 A, T_C = 25°C)	V_F	1.0			1.3	1.7	V
Maximum Instantaneous Reverse Current (Note 1) (Rated DC Voltage, T_C = 125°C) (Rated DC Voltage, T_C = 25°C)	I_R	250 10			500 10		μA
Maximum Reverse Recovery Time (IF = 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 □s, Duty Cycle ≤2.0%

Typical Characteristics

FIG1: IF（AV）--Tc Derating

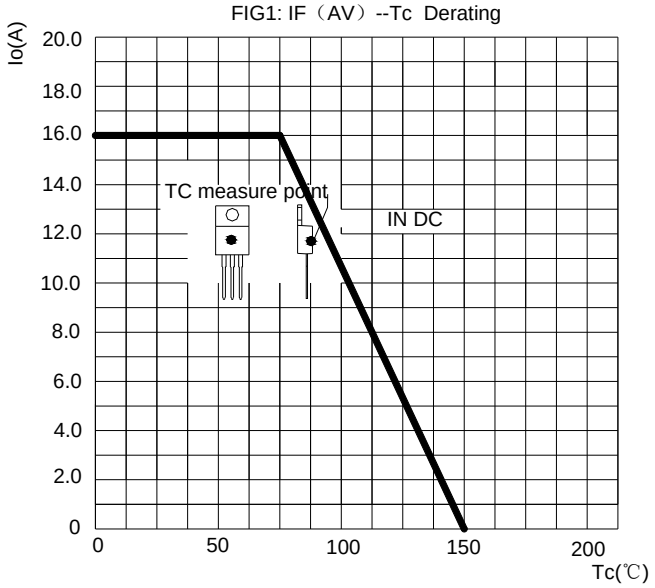


FIG2:Surge Forward Current Capadility

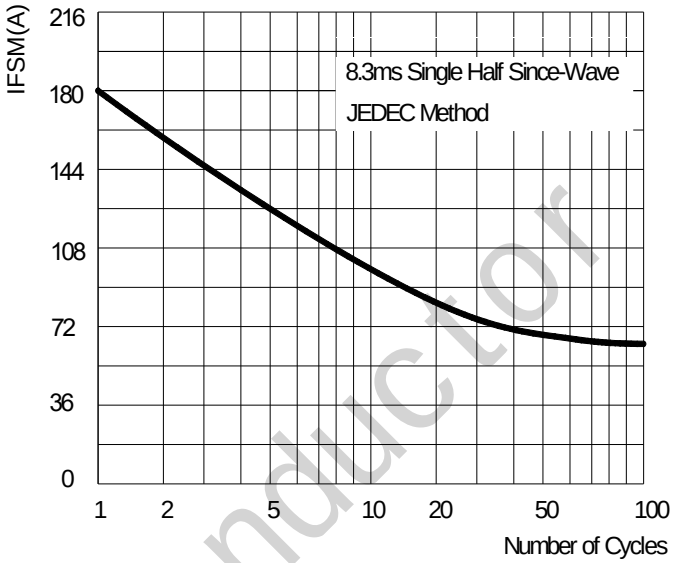


FIG3:Instantaneous Forward Voltage

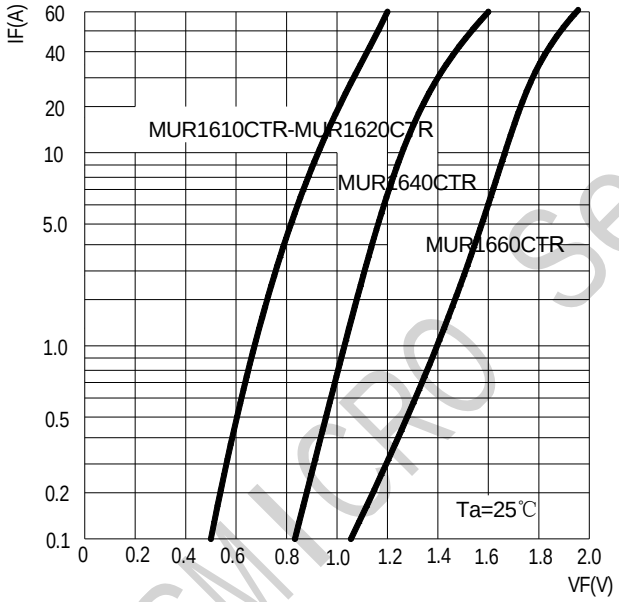


FIG4:Typical Reverse Characteristics

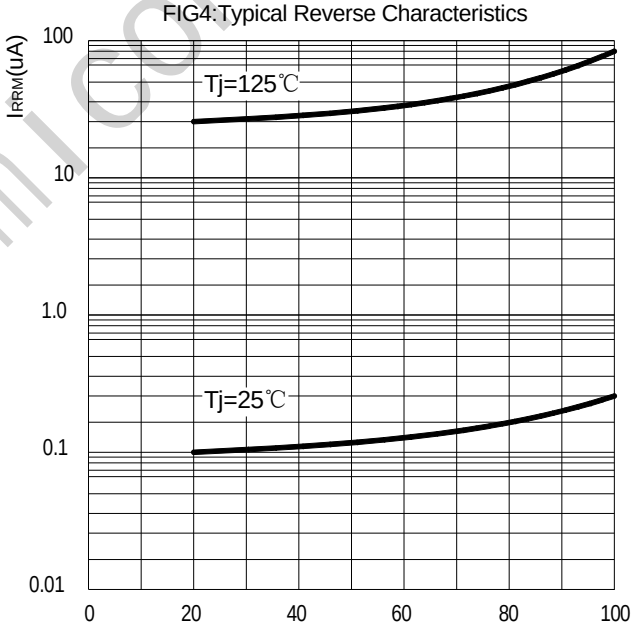
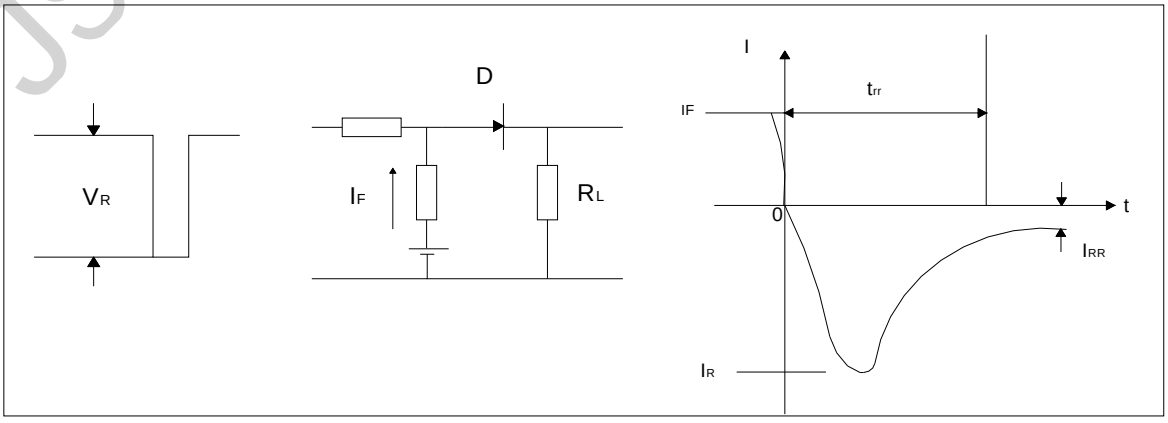


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



Package Dimension

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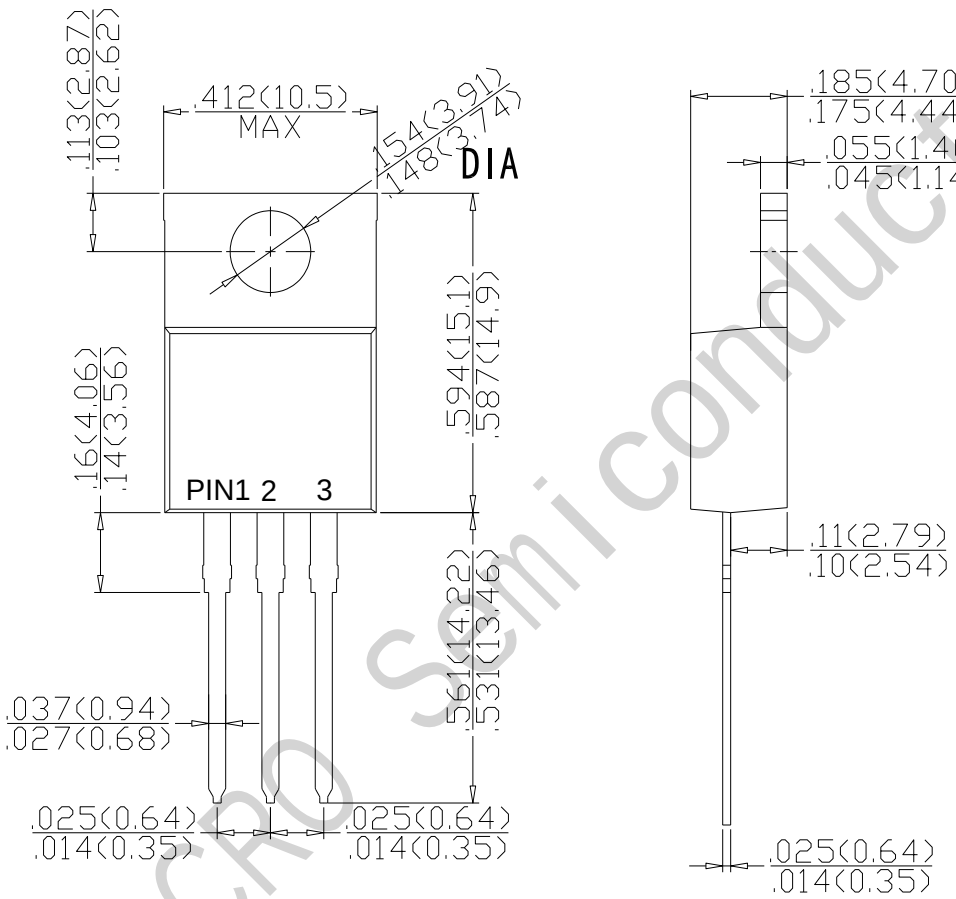

Dimensions in inches and (millimeters)