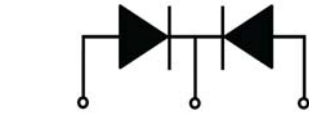
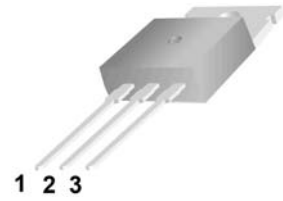


20A Super Fast Recovery

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 2020CT	Unit
Maximum recurrent peak reverse voltage	V_{RRM}	200	V
Maximum RMS Voltage	V_{RMS}	140	V
Maximum DC Blocking Voltage	$V_{R(DC)}$	200	V
Average Rectified Forward Current Total Device, (Rated V_F),	$I_{F(AV)}$	20	A
Nonrepetitive Peak Surge Current(Surge applied at rated load conditions half wave, single phase, 60 Hz)	I_{FSM}	200	A
Operating Junction Temperature and Storage Temperature	T_J, T_{stg}	-55 to +155	°C
Maximum Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	3.0	°C/W

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	MUR 2020CT	Unit
Forward Voltage ($I_F = 20A, T_C = 25^\circ C$) (Note 1) ($I_F = 20 A, T_C = 125^\circ C$)	V_F	0.975 0.895	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	5 250	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 μs , Duty Cycle $\leq 2.0\%$

Typical Characteristics

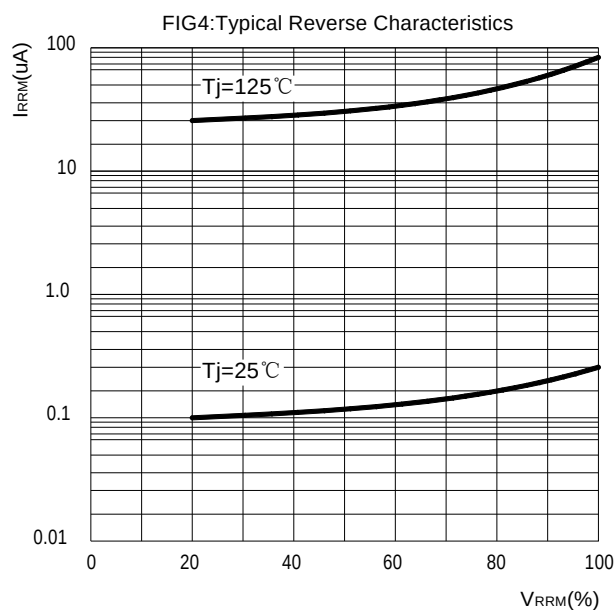
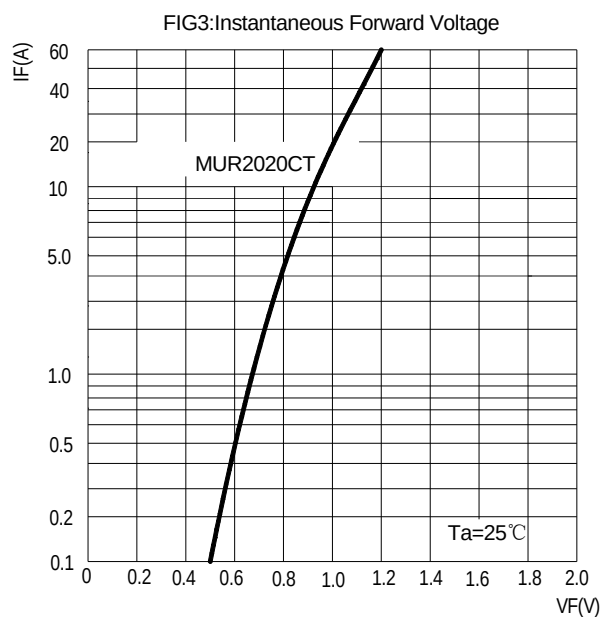
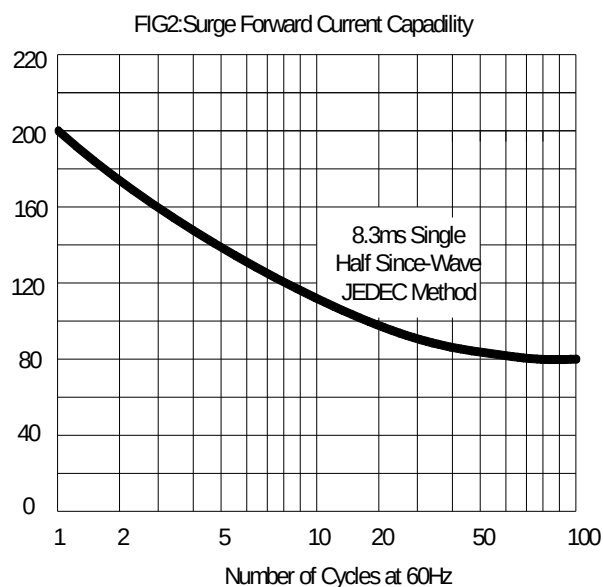
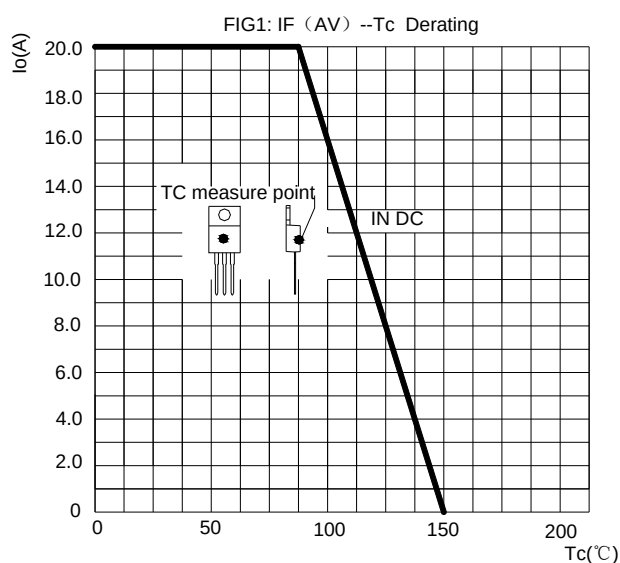
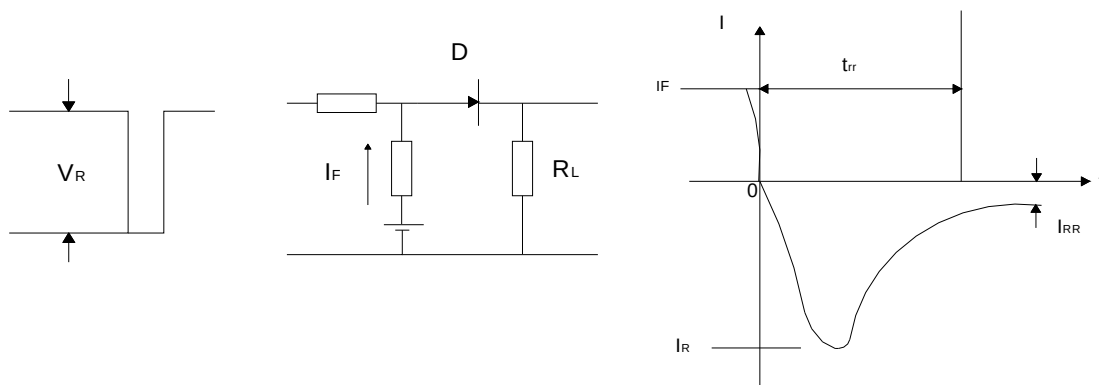
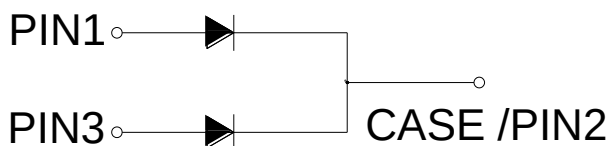
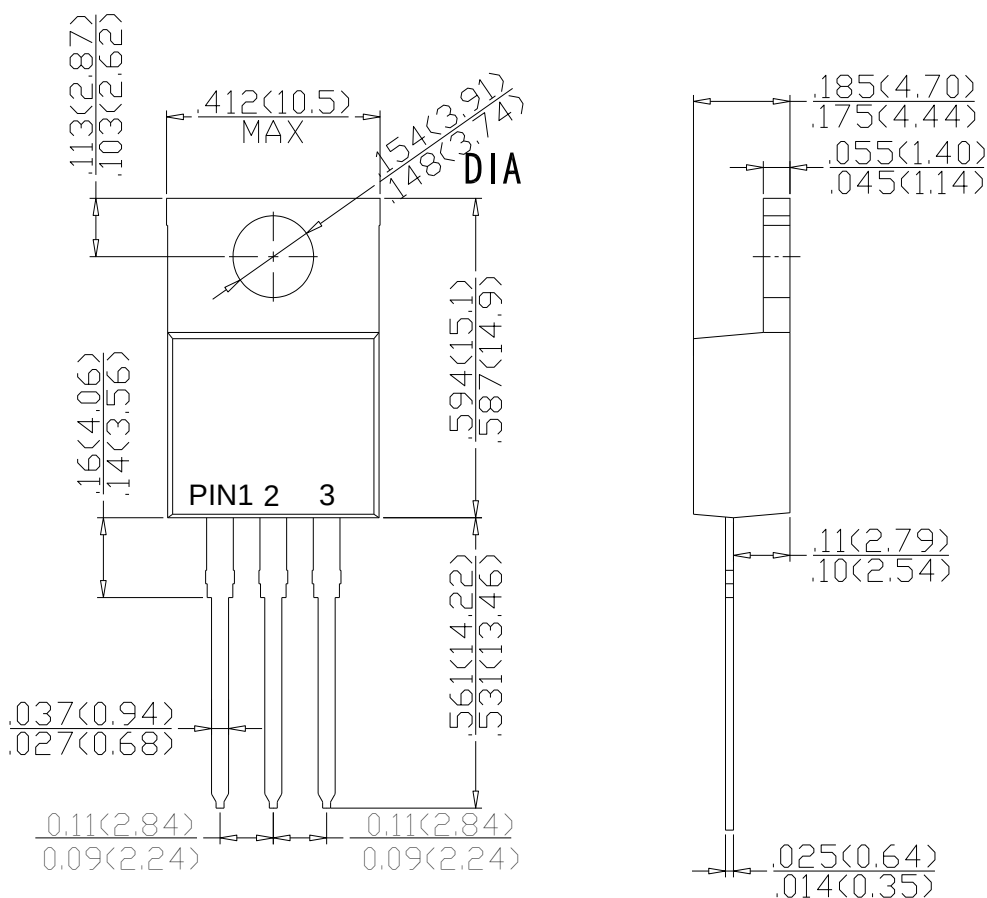


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

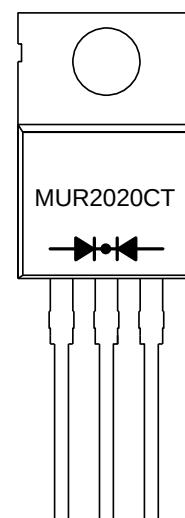


TO-220 Package Dimension



Dimensions in inches and (millimeters)

Marking Information



Ordering Information

Part Number	Delivery Mode	Quantity
MUR2020CT	Tube packing	50pcs/tube