

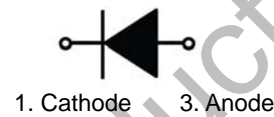
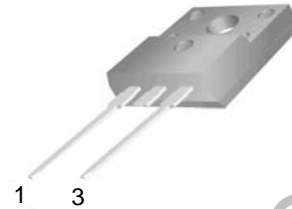


## MURF1005 – MURF1060

## Features:

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

TO-220F -2L



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

Parameter	Symbol	MUR F1005	MUR F1010	MUR F1015	MUR F1020	MUR F1030	MUR F1040	MUR F1060	Unit
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	150	200	300	400	600	V
Maximum RMS Voltage	$V_{RMS}$	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	$V_{R(DC)}$	50	100	150	200	300	400	600	V
Average Rectified Forward Current Total Device, (Rated $V_R$ )	$I_{F(AV)}$	10							A
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half wave, single phase, 60 Hz)	$I_{FSM}$	125							A
Operating Junction Temperature and Storage Temperature	$T_J, T_{stg}$	-55 to +150							°C
Maximum Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	2.0							°C/W

## ELECTRICAL CHARACTERISTICS

Parameter	Symbol	MUR F1005	MUR F1010	MUR F1015	MUR F1020	MUR F1030	MUR F1040	MUR F1060	Unit
Forward Voltage (Note 1) ( $I_F = 10A, T_C = 25^\circ C$ )	$V_F$	0.95			1.25		1.70		V
Maximum Instantaneous Reverse Current (Note 1) (Rated DC Voltage, $T_C = 25^\circ C$ )	$I_R$	10							$\mu A$
Maximum Reverse Recovery Time ( $I_F = 1.0 A, di/dt = 50 A/\mu s$ ) ( $I_F = 0.5 A, I_R = 1.0 A, I_{REC} = 0.25 A$ )	$T_{RR}$	35			25				ns

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

Typical Characteristics

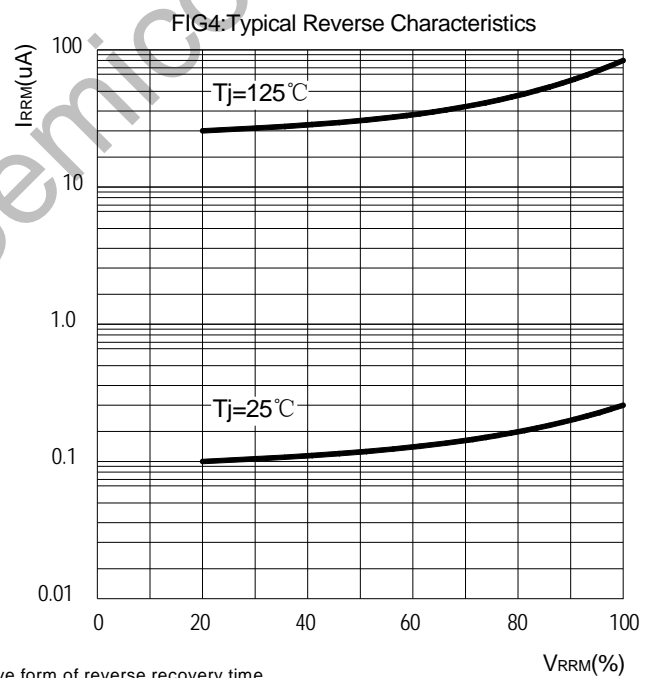
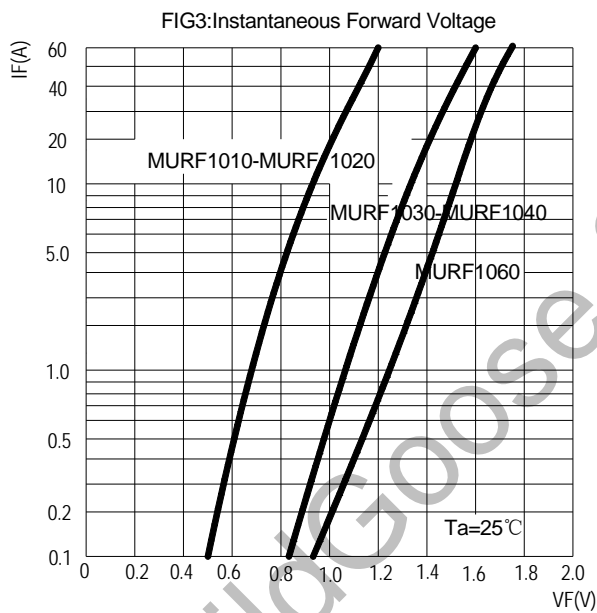
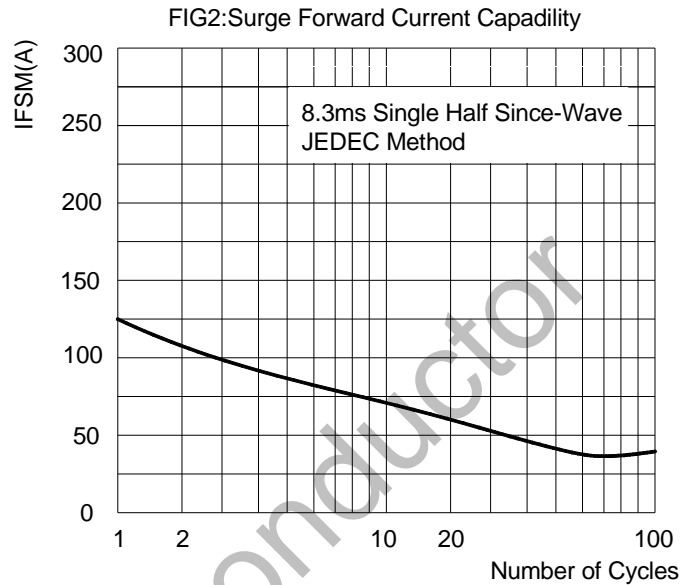
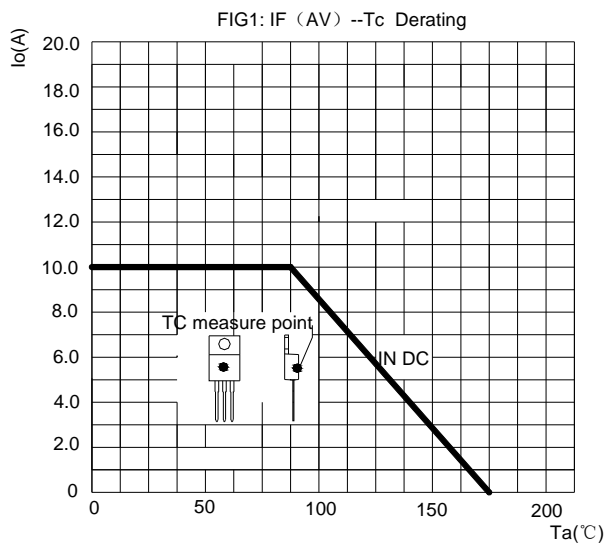
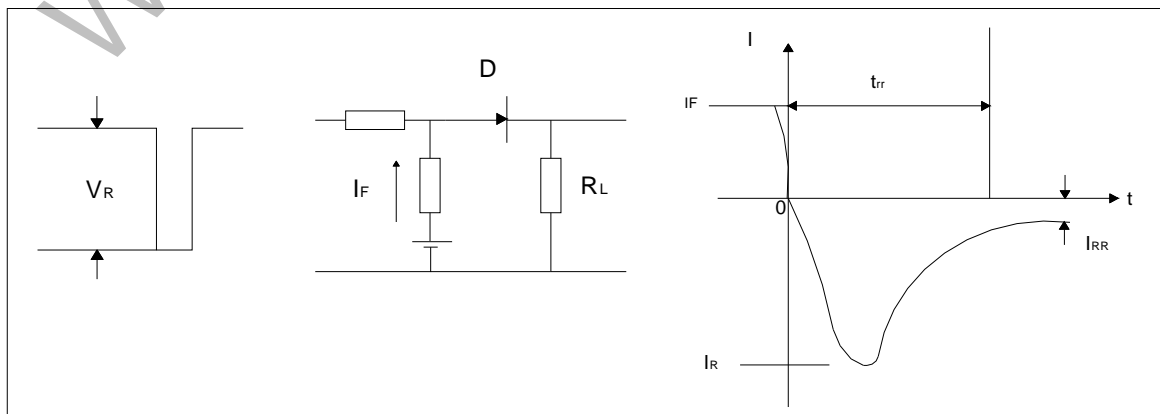
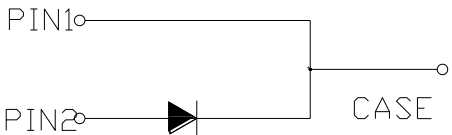
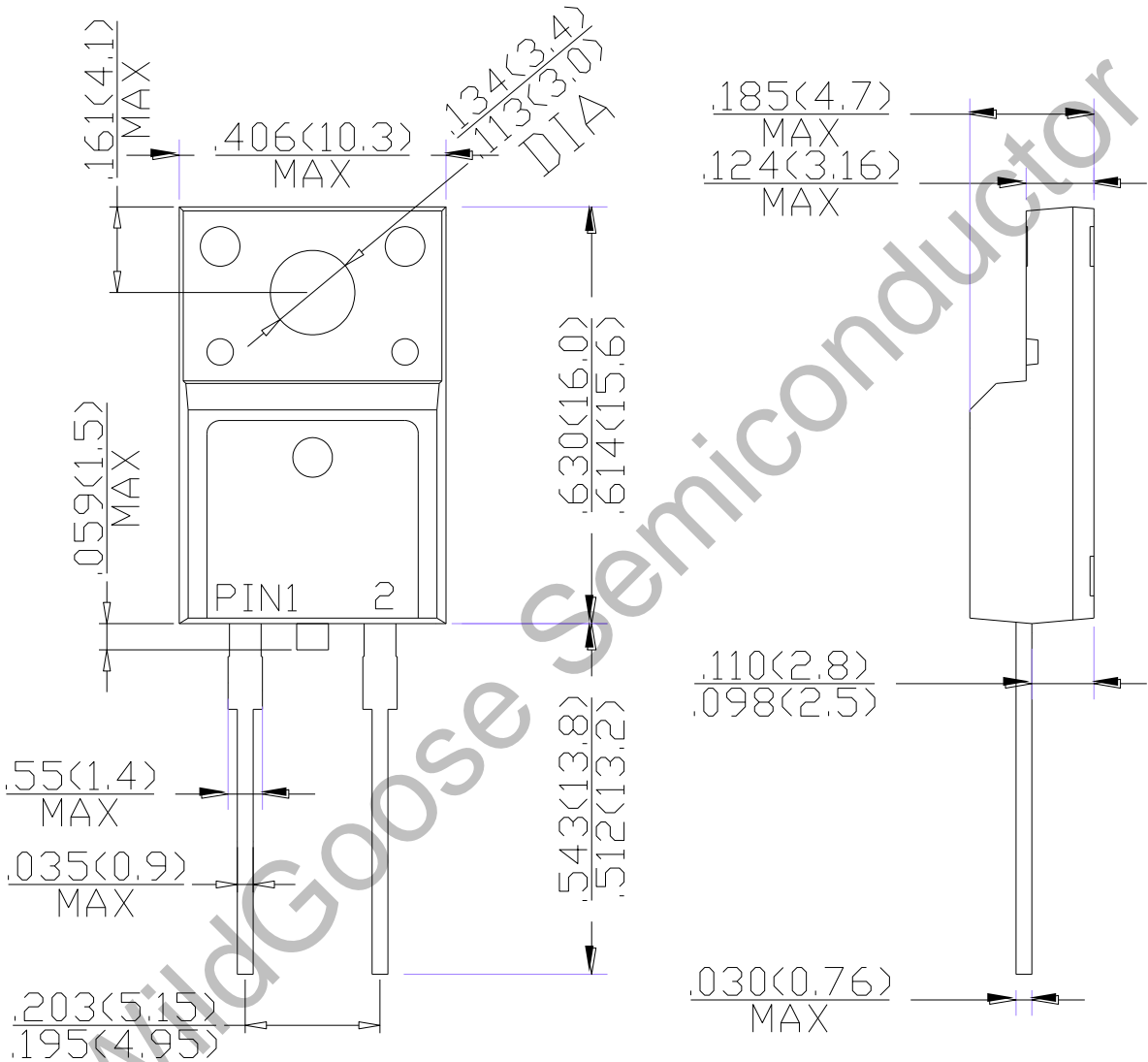


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



**Package Dimension**

**TO-220F -2L**



Dimensions in inches and (millimeters)

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