

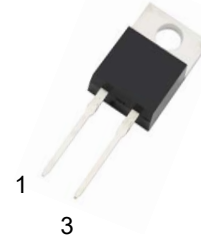


MUR1605 - MUR1660

Features:

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

TO-220-2L



1. Cathode 3. Anode

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

Parameter	Symbol	MUR 1605	MUR 1610	MUR 1615	MUR 1620	MUR 1630	MUR 1640	MUR 1660	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), $T_C = 125^\circ\text{C}$	$I_{F(AV)}$	16							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 +150							°C
Maximum Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	3.0				2.0			°C/W

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	MUR 1605	MUR 1610	MUR 1615	MUR 1620	MUR 1630	MUR 1640	MUR 1660	Unit
Forward Voltage ($I_F = 16\text{A}$, $T_j = 25^\circ\text{C}$) (Note 1) ($I_F = 16\text{A}$, $T_j = 125^\circ\text{C}$)	V_F	0.975 0.895				1.30 1.00		1.70 1.20	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							ns

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

Typical Characteristics

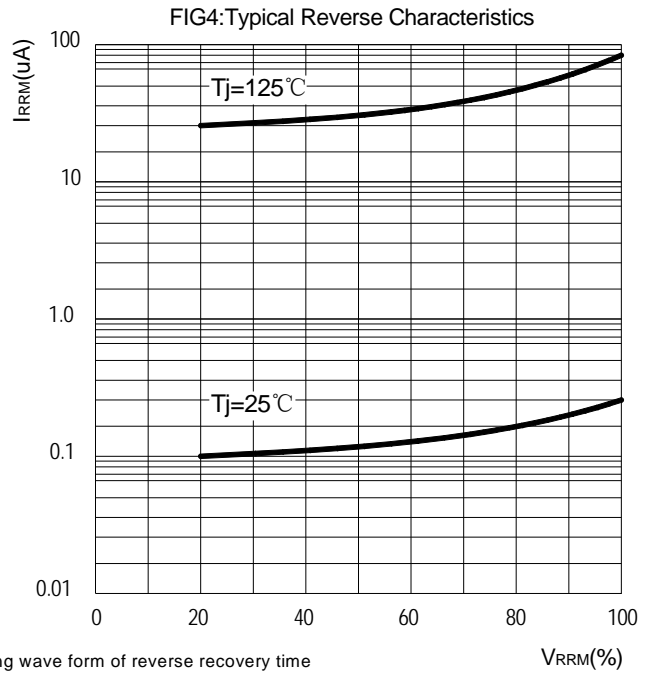
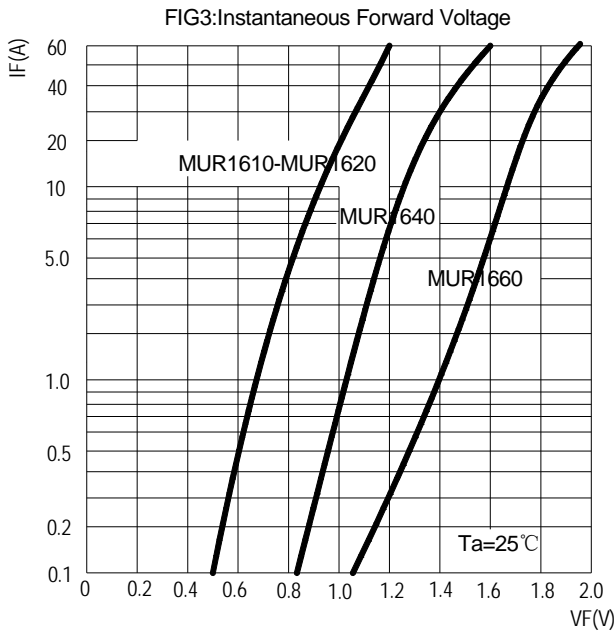
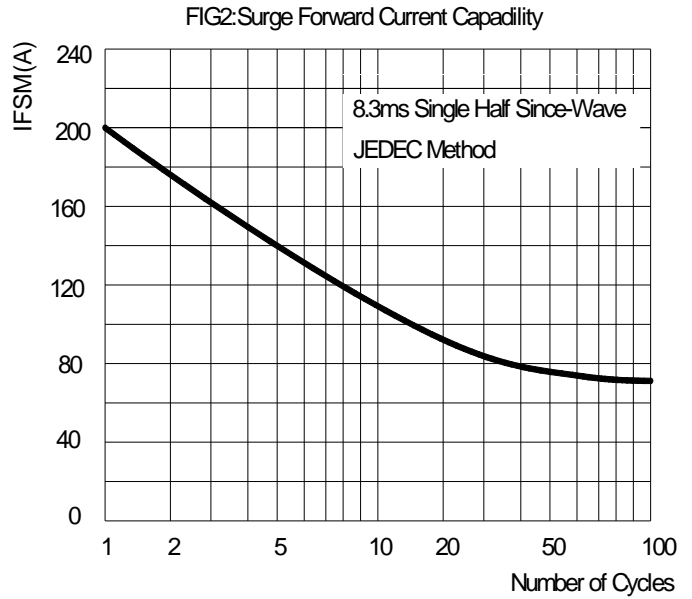
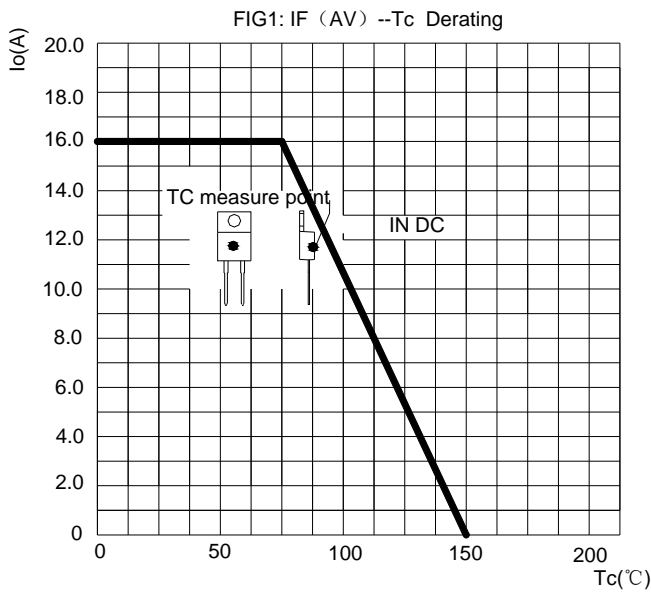
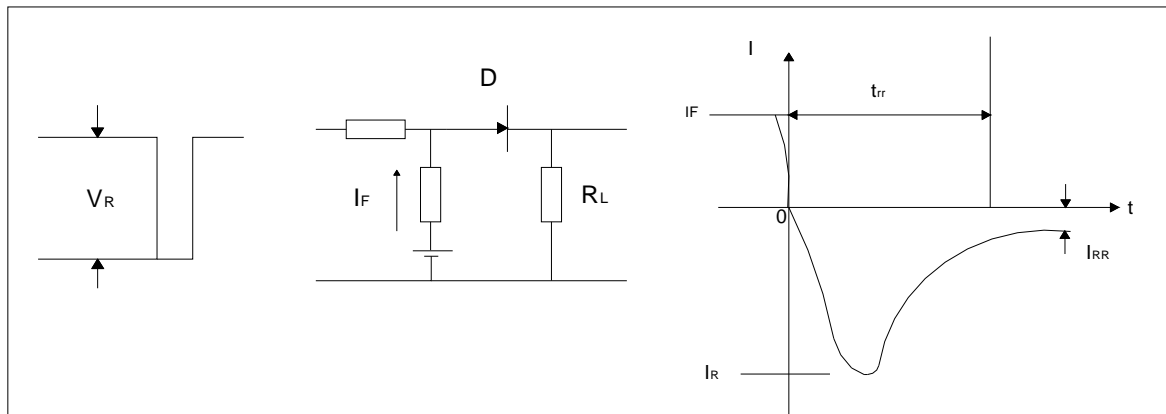
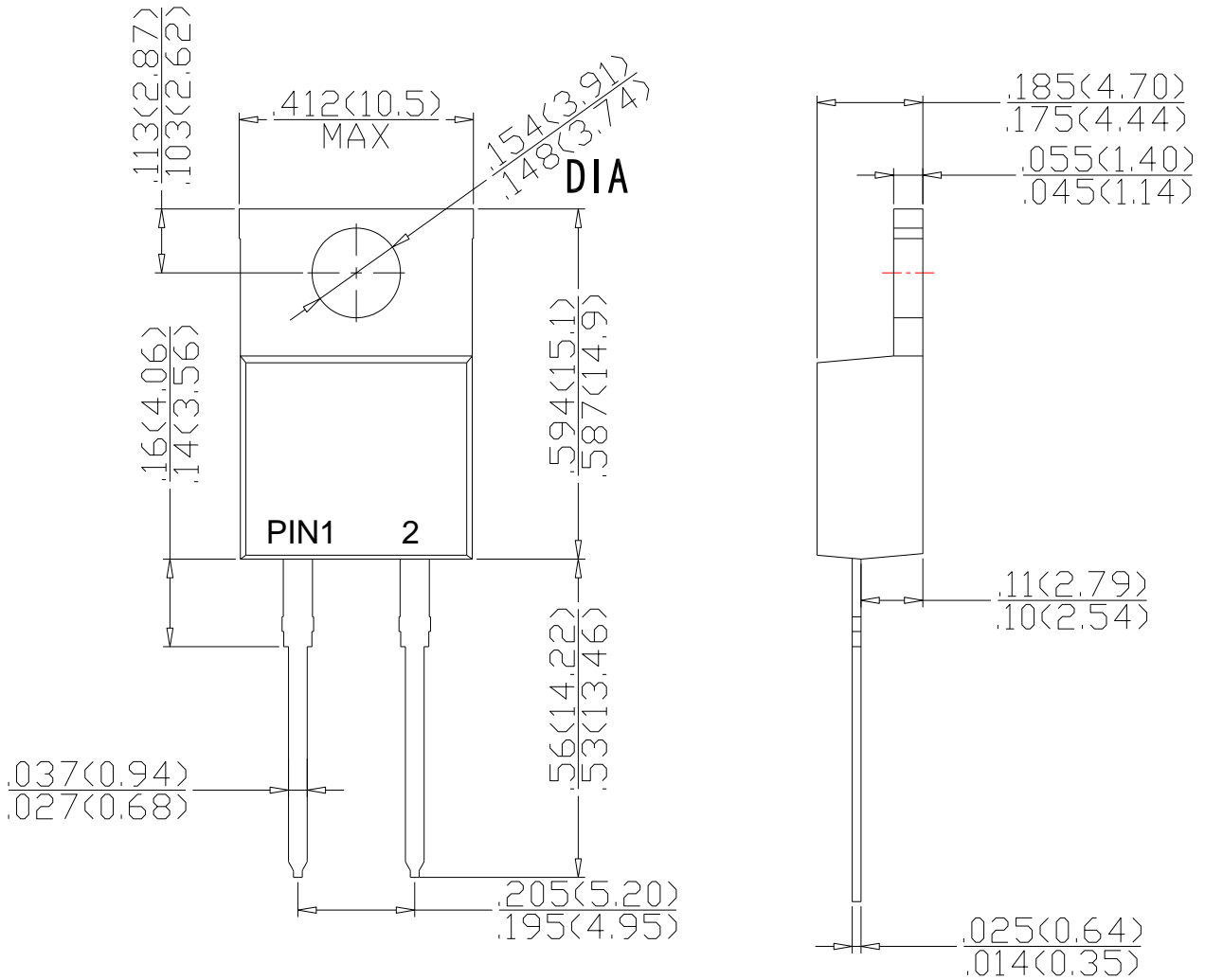


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



Package Dimension

TO-220 -2L



Dimensions in inches and (millimeters)