

MUR1005 - MUR1060

10 Amps Super Fast Recovery



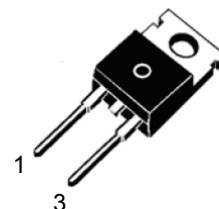
MUR1005 - MUR1060

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 1005	MUR 1010	MUR 1015	MUR 1020	MUR 1030	MUR 1040	MUR 1060	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), $T_j = 150^\circ\text{C}$	$I_{F(AV)}$	10							A
Nonrepetitive Peak Surge Current(Surge applied at rated load conditions half wave, single phase, 60 Hz)	I_{FSM}	130							A
Operating Junction Temperature and Storage Temperature	T_j, T_{stg}	-65 to +175							°C
Maximum Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	3.0			2.0			°C/W	

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	MUR 1005	MUR 1010	MUR 1015	MUR 1020	MUR 1030	MUR 1040	MUR 1060	Unit
Forward Voltage ($I_F = 5\text{A}$, $T_j = 25^\circ\text{C}$) (Note 1) ($I_F = 5\text{A}$, $T_j = 150^\circ\text{C}$)	V_F	0.975 0.895			1.30 1.00		1.50 1.20		V
Maximum Instantaneous Reverse Current (Note 1) (Rated DC Voltage, $T_j = 25^\circ\text{C}$) (Rated DC Voltage, $T_j = 150^\circ\text{C}$)	I_R	5 250			10 500				μA
Maximum Reverse Recovery Time ($I_F = 1.0\text{A}$, $di/dt = 50\text{A}/\mu\text{s}$) ($I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{REC} = 0.25\text{A}$)	T_{RR}	35 25			60 50				ns

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

Typical Characteristics

FIG.1 - TYPICAL FORWARD CHARACTERISTIC

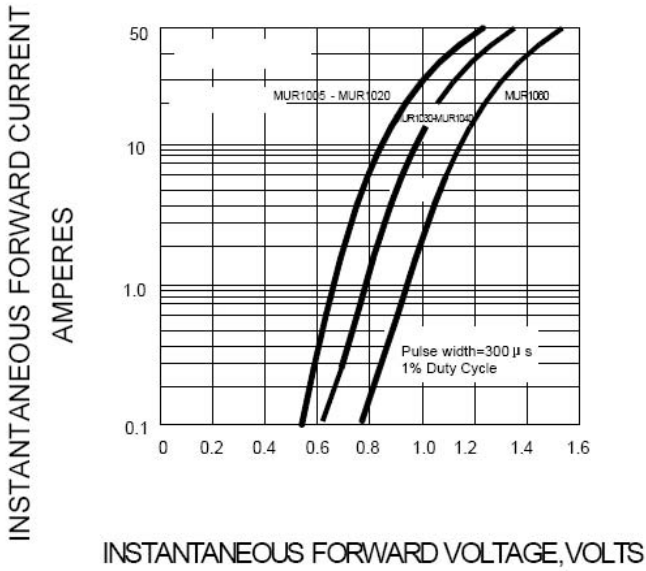


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

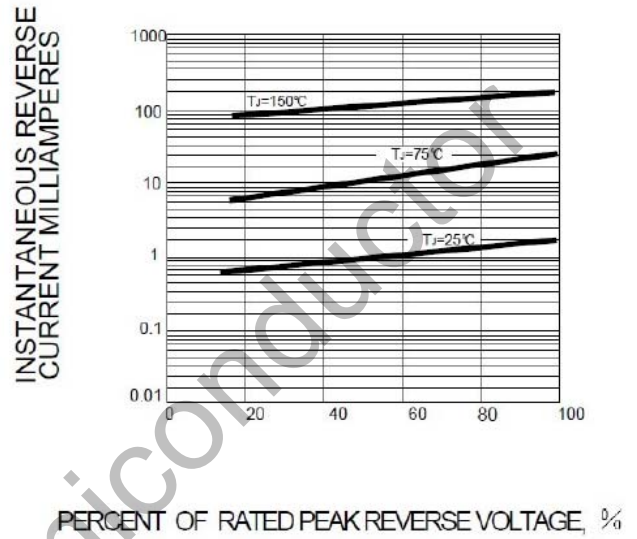


FIG.3 - PEAK FORWARD SURGE CURRENT

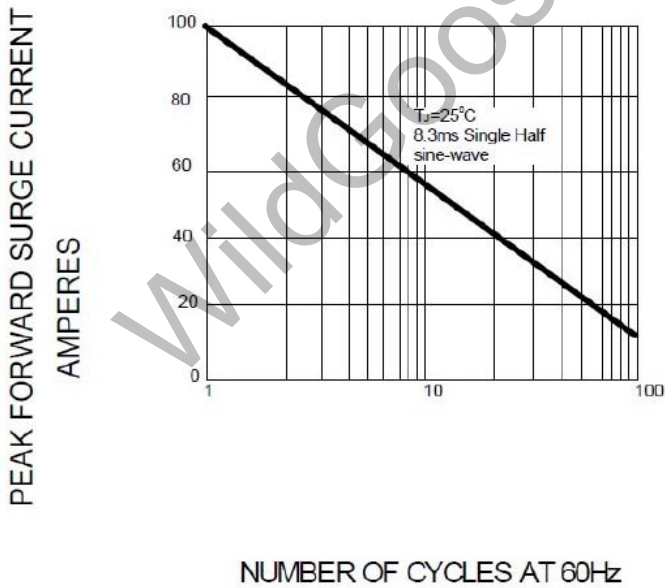
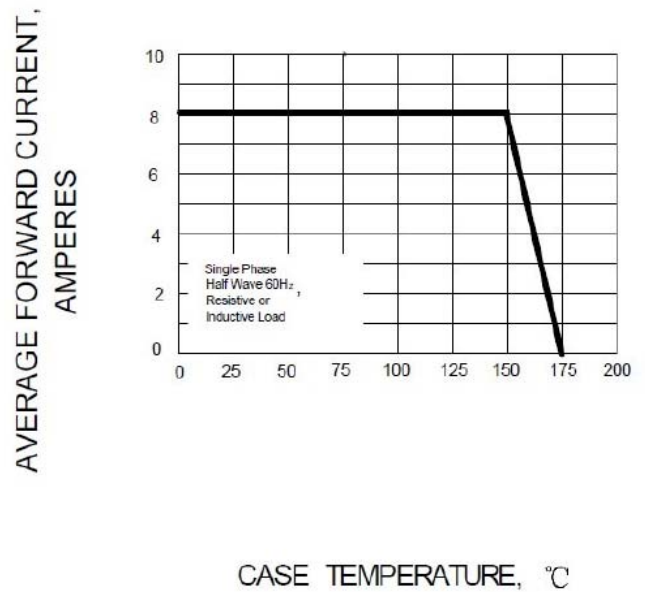


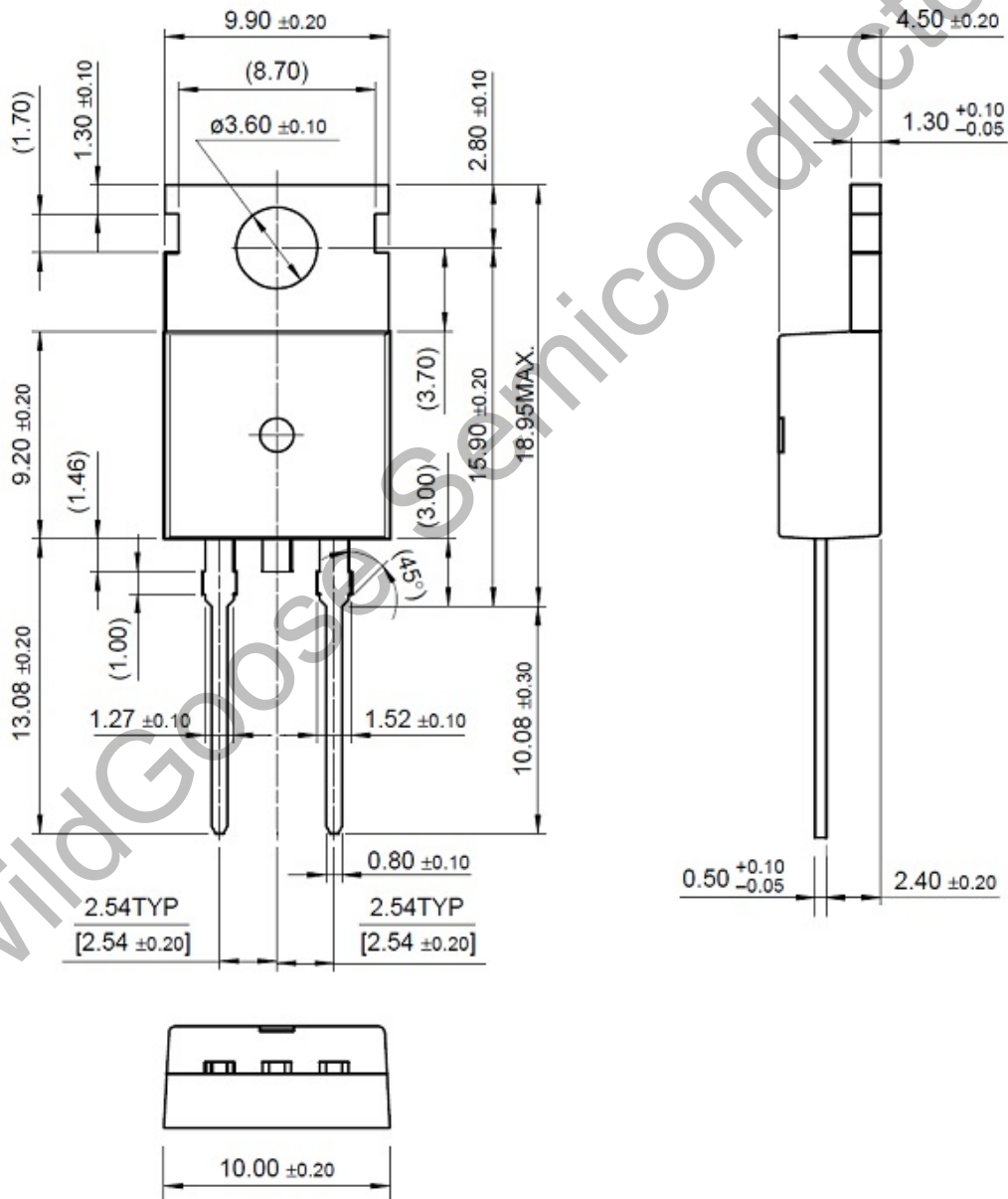
FIG.4 - FORWARD DERATING CURVE



Package Dimension

TO-220 -2L

Unit: mm



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