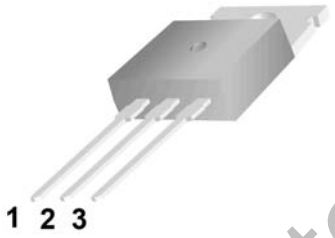
WG WildGoose

TO-220

RoHS COMPLIANT



1.Cathode 2.Anode 3. Cathode

Features:

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

Maximum Ratings (Per Leg) At Ta=25°C Unless Otherwise Specified

Parameter		Symbols	MUR3020CTR	MUR3040CTR	MUR3060CTR	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	200	400	600	V
Maximum RMS voltage		V_{RMS}	140	280	420	V
Maximum DC Blocking Voltage		V_{DC}	200	400	600	V
Maximum Average Forward Rectified Current	Per Leg	$I_{F(AV)}$	15			A
	per device		30			
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I_{FSM}	240			A
Instantaneous forward voltage at 15A	per leg	V_F	1.2	1.5	1.9	V
Maximum instantaneous reverse current at rated DC blocking voltage	Ta=25℃	I_R	5			uA
	Ta=125℃		300			
Maximum Reverse Recovery Time NOTE 1		t_{rr}	45			nS
Typical Thermal Resistance		$R_{\theta JC}$	4			°C/W
Operating Junction Temperature Range		T_J	-55 ~ +150			°C
Storage Temperature Range		T_{STG}	-55 ~ +150			°C

Note1: Reverse recovery test conditions IF=0.5A,IR=1.0A, Irr=0.25A

Typical Characteristics

Fig.1 Forward Current Derating Curve

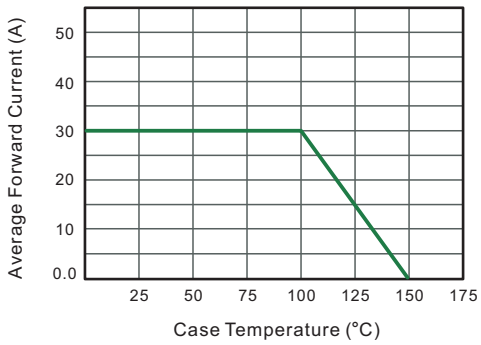


Fig.2 Typical Instaneous Reverse Characteristics

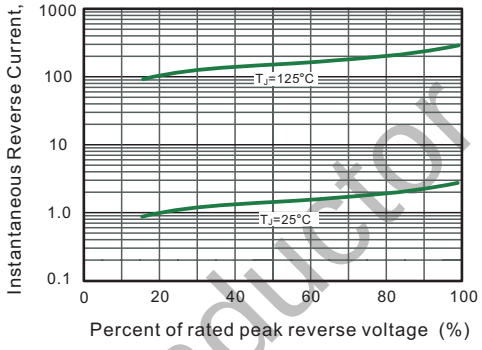


Fig.3 Typical Forward Characteristic

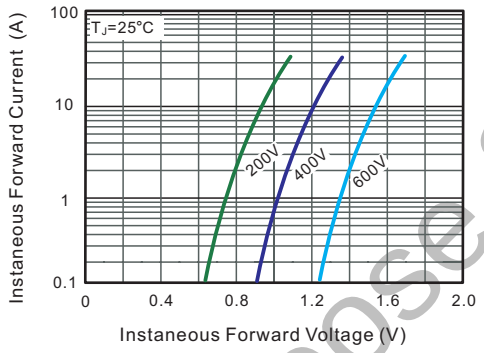
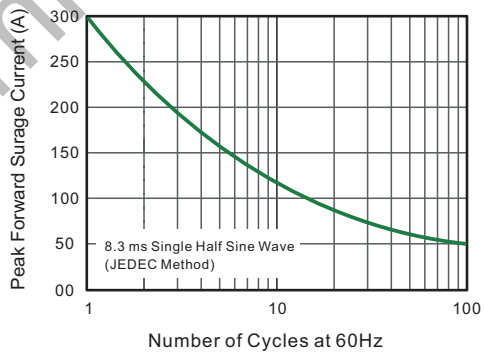


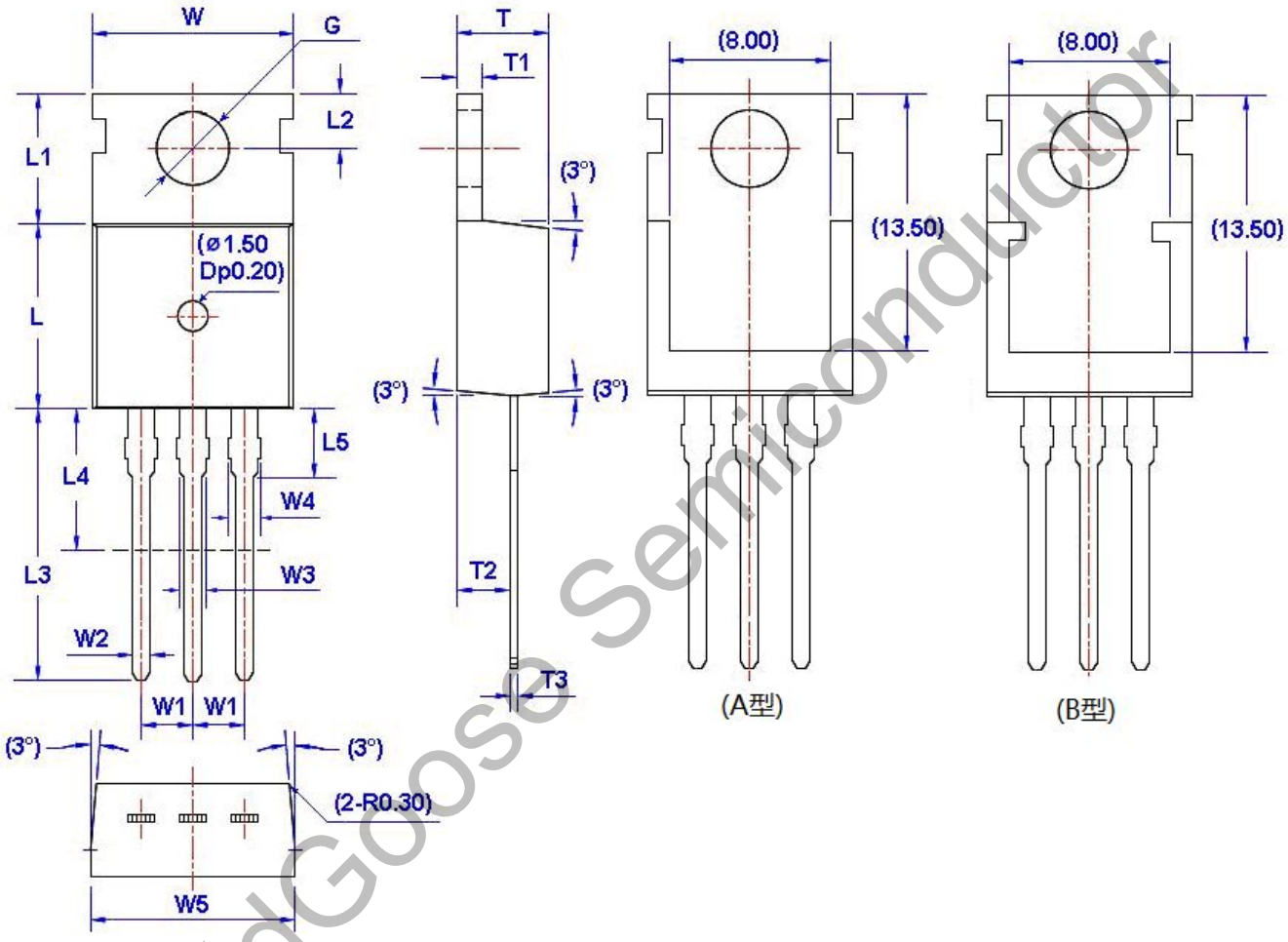
Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



Package Dimension

TO-220

Unit:mm



Symbol	Size		Symbol	Size		Symbol	Size		Symbol	Size	
	Min	Max		Min	Max		Min	Max		Min	Max
W	9.66	10.28	W5	9.80	10.20	L4**	6.20	6.60	T3	0.45	0.60
W1	2.54（TYP）		L	9.00	9.40	L5	2.79	3.30	G(Φ)	3.50	3.70
W2	0.70	0.95	L1	6.40	6.80	T	4.30	4.70			
W3	1.17	1.37	L2	2.70	2.90	T1	1.15	1.40			
W4*	1.32	1.72	L3	12.70	14.27	T2	2.20	2.60			