


# MUR3020CTR – MUR 3060CTR


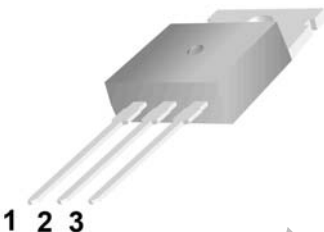

## 30 Amps Super Fast Recovery



**Features:**

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

TO-220

1.Cathode 2.Anode 3. Cathode

### 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	15			A
	per device				
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	$I_R$	5 300			uA
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  $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

Typical Characteristics

Fig.1 Forward Current Derating Curve

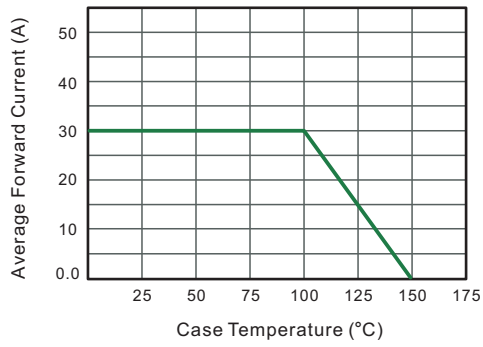


Fig.2 Typical Instaneous Reverse Characteristics

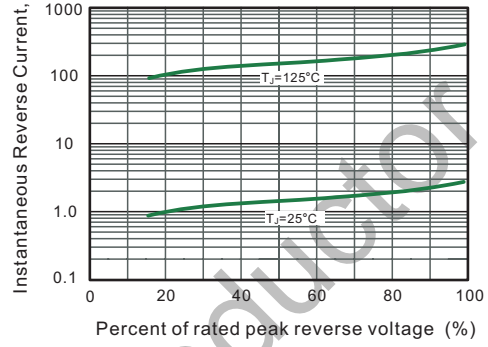


Fig.3 Typical Forward Characteristic

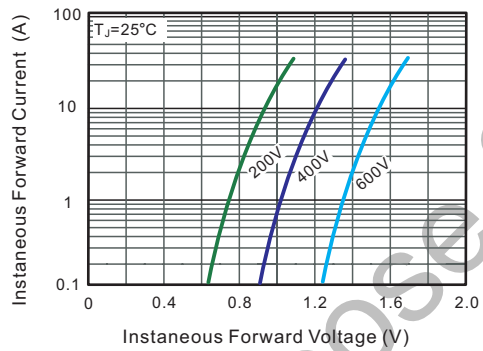
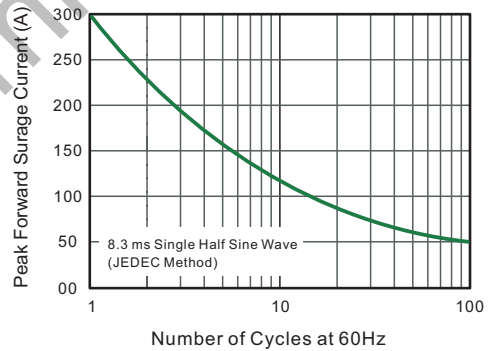


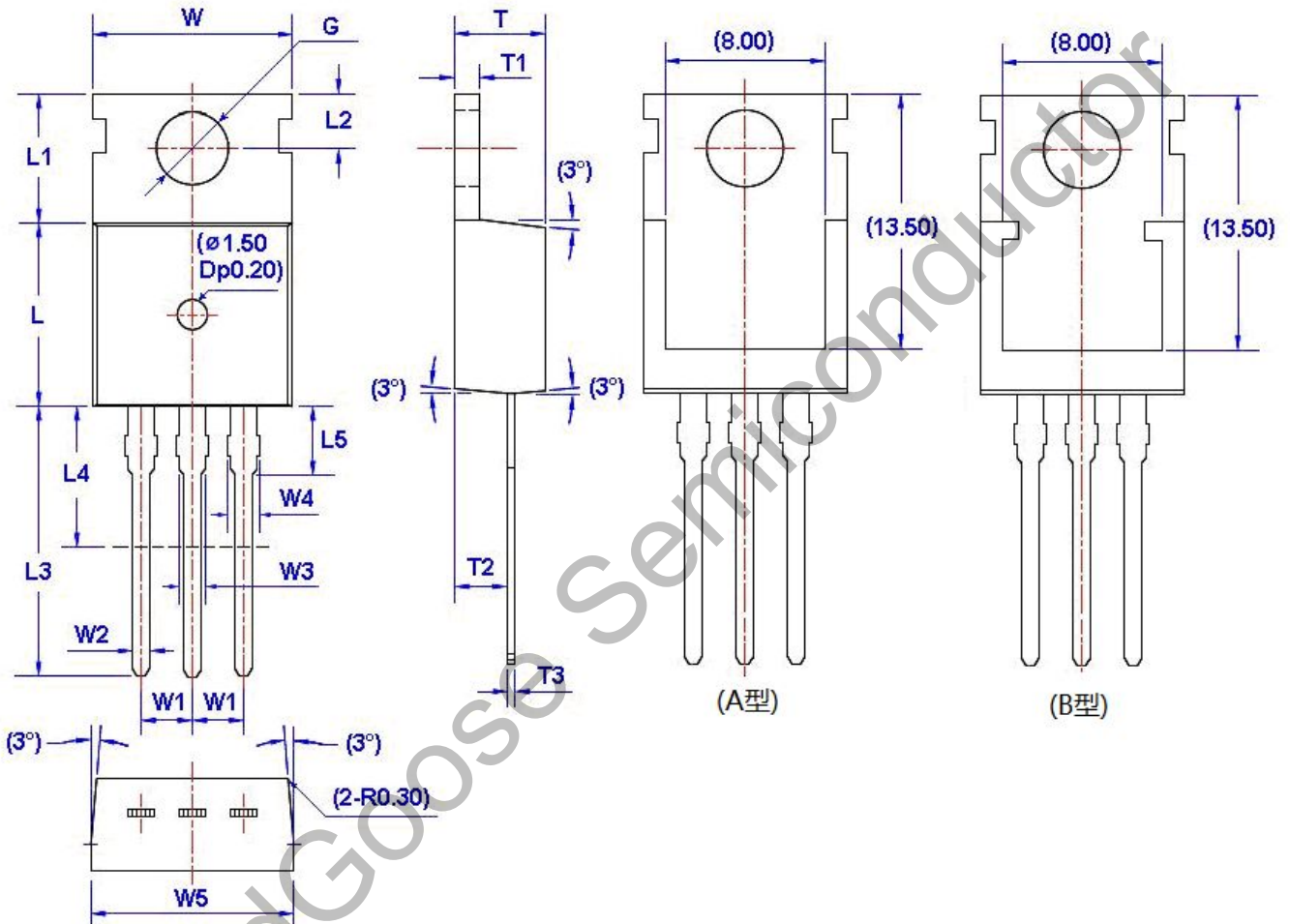
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



**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			

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