



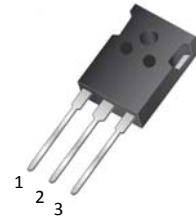
MURJ3040CT-MURJ3060CT

30.0 AMP Ultrafast Recovery Rectifier

1. Features

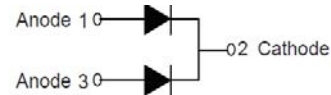
- Adopt FRED chip.
- High frequency operation.
- High current capability.
- High reliability.
- Ultrafast recovery time,high voltage.
- RoHS Compliant.

TO247-3L



2. Mechanical Data

- Case:Molded Plastic,TO247-3L .
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026.
- Marking:marked on body.
- Mounting Position : Any.



3. Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	MURJ3040CT	MURJ3060CT	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	600	V
Maximum RMS Voltage	V_{RMS}	280	420	V
Maximum DC Blocking Voltage	V_{DC}	400	600	V
Average Rectified Output Current @Tc=110°C	$I_{F(AV)}$	30.0		A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed @Tj=25°C on rated load (JEDEC Method)	I_{FSM}	180		A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	134.46		A ² s
Maximum Instantaneous Forward Voltage @I _F =15A	V_{FM}	1.45	1.60	V
Maximum DC reverse current @Tj=25°C at rated DC blocking voltage @Tj=125°C	I_R	10.0 300		uA
Maximum Reverse Recovery Time (Note 1)	T_{RR}	50		ns
Typical Thermal Resistance	$R_{\theta JC}$	1.00		°C/W
Operating Temperature and Storage Temperature Rang	T _j , T _{STG}	-55 to+175		°C



4. Rating And Characteristic Curves

Fig. 1 Forward Current Derating Curve

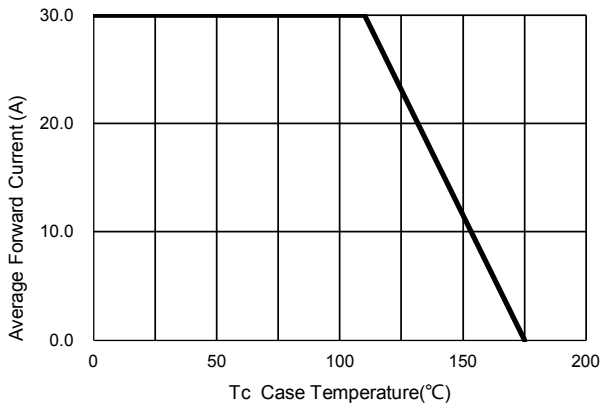


Fig. 2 Typical Forward Characteristics

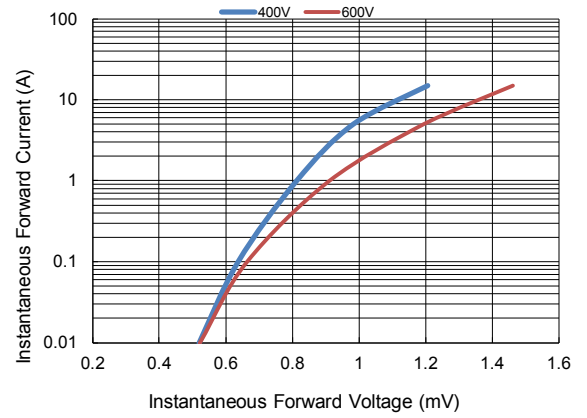


Fig. 3 Forward Surge Current Capability

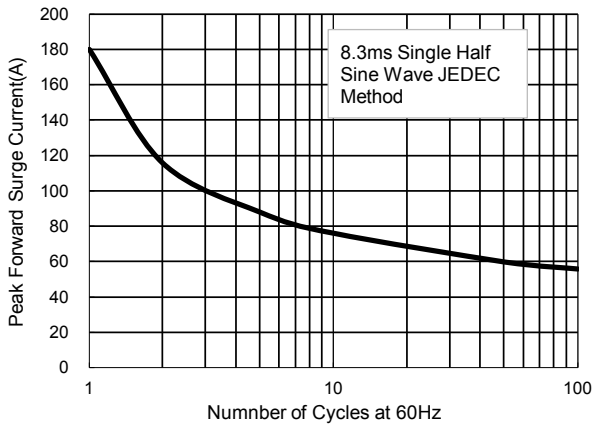
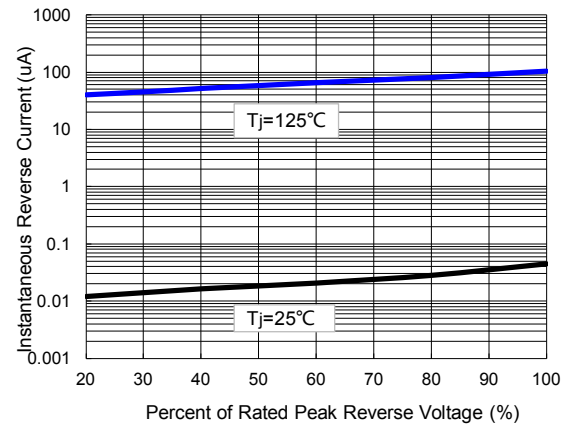


Fig. 4 Typical Reverse Characteristics

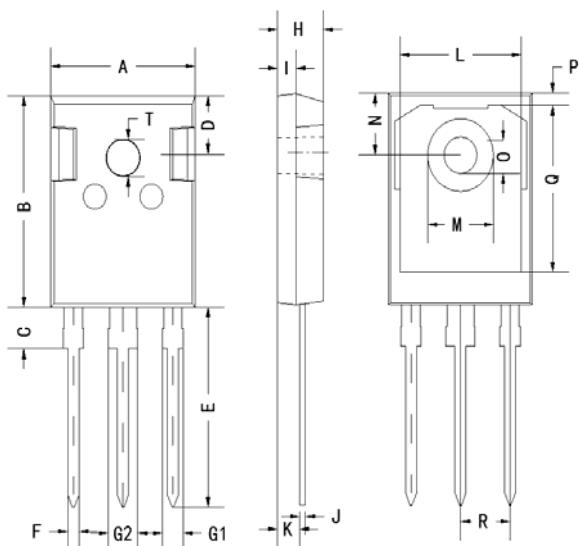




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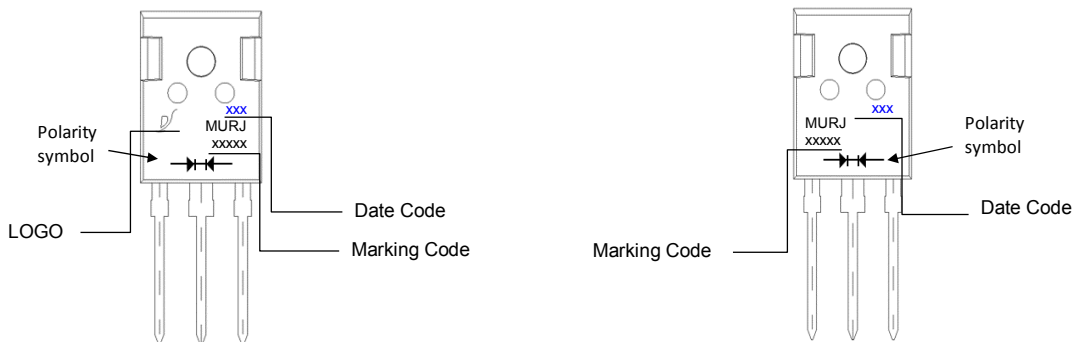
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5. Dimensions



Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	0.614	0.630	15.60	16.00
B	0.819	0.835	20.80	21.20
C	0.155	0.170	3.93	4.33
D	0.220	0.236	5.60	6.00
E	0.776	0.792	19.72	20.12
F	0.046	0.050	1.16	1.26
G1		0.089		2.25
G2		0.128		3.25
H	0.193	0.201	4.90	5.10
I	0.075	0.083	1.90	2.10
J	0.021	0.029	0.53	0.725
K	0.091	0.099	2.31	2.51
L	0.516	0.531	13.10	13.50
M	0.276	0.291	7.00	7.40
N	0.238	0.246	6.05	6.25
O	0.14	0.15	3.55	3.75
P	0.04	0.05	1.05	1.35
Q	0.64	0.66	16.25	16.85
R	0.21	0.22	5.34	5.54
T	0.14	0.15	3.65	3.85

6. Part Marking System



7. Package Information

Package	Packing Type	Tube Size	Quantity(pcs)
		mm	
TO247-3L	Tube	416*45.3*7.5	25



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