



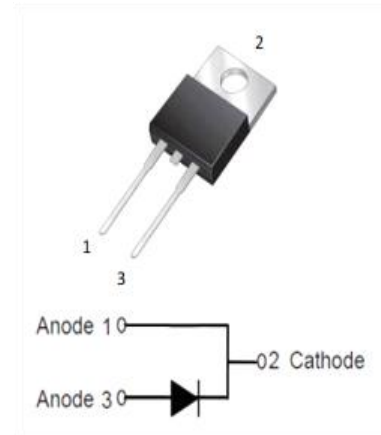
1. Features

- Glass passivated chip junction.
- High frequency operation.
- High current capability.
- High reliability.
- Super fast recovery time,high voltage.
- RoHS Compliant.

2. Mechanical Data

- Case:Molded Plastic,TO220AC .
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026.
- Marking:marked on body.
- Mounting Position : Any.

TO-220AC



3. Maximum Ratings and Electrical Characteristics

Electrical Characteristics Rating at 25℃ ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	MUR8120G	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1200	V
Maximum RMS Voltage	V_{RMS}	840	V
Maximum DC Blocking Voltage	V_{DC}	1200	V
Average Rectified Output Current @ $T_c=100^{\circ}C$	$I_{F(AV)}$	8.0	A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed @ $T_j=25^{\circ}C$ on rated load (JEDEC Method)	I_{FSM}	130	A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	70.14	A^2s
Maximum Instantaneous Forward Voltage @ $I_F=8A$	V_{FM}	2.00	V
Maximum DC reverse current @ $T_j=25^{\circ}C$ at rated DC blocking voltage @ $T_j=125^{\circ}C$	I_R	10.0 200	μA
Maximum Reverse Recovery Time (Note 1)	T_{RR}	75	ns
Typical Thermal Resistance	$R_{\theta JC}$	3.5	$^{\circ}C/W$
Operating Temperature Range	T_j	-55 to+150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to+150	$^{\circ}C$

Note:

1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$.



4. Rating And Characteristic Curves

Fig. 1 Forward Current Derating Curve

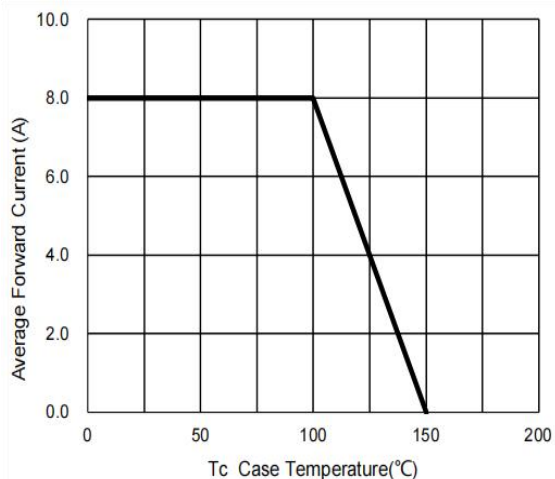


Fig. 2 Typical Forward Characteristics

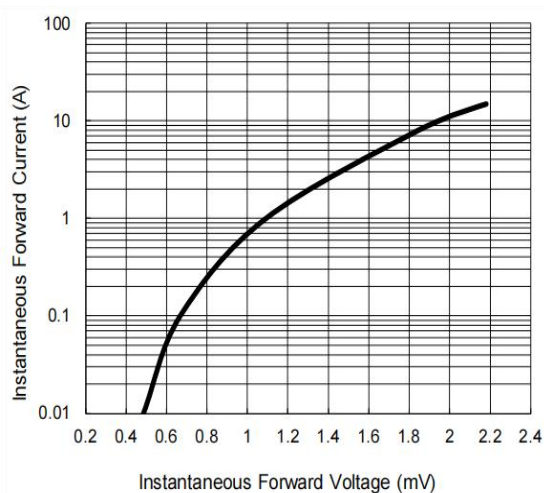


Fig. 3 Forward Surge Current Capability

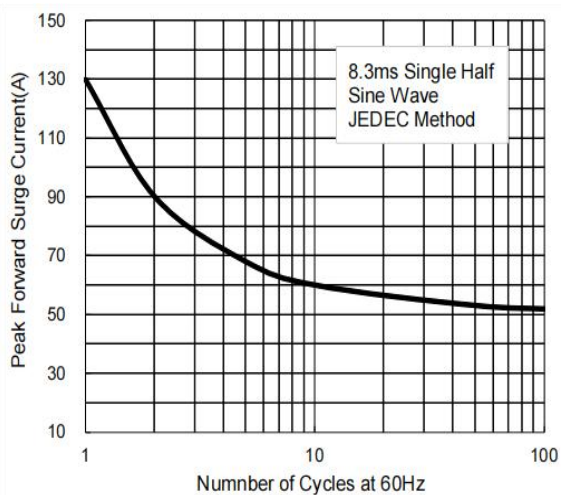
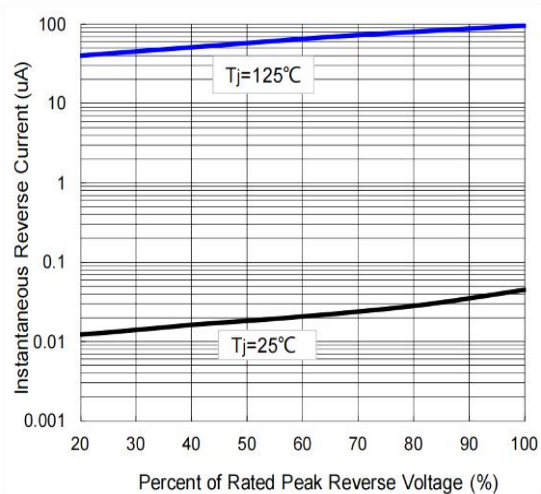
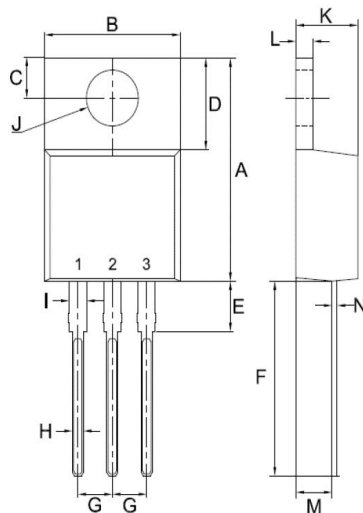


Fig.4 Typical Reverse Characteristics





5. Dimensions



Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	0.583	0.622	14.80	15.80
B	0.377	0.416	9.57	10.57
C	0.100	0.116	2.54	2.94
D	0.228	0.268	5.80	6.80
E	0.116	0.156	2.95	3.95
F	0.500	0.528	12.70	13.40
G	0.092	0.108	2.34	2.74
H	0.020	0.044	0.51	1.11
I	0.038	0.062	0.97	1.57
J	0.139	0.163	3.54	4.14
K	0.168	0.192	4.27	4.87
L	0.042	0.058	1.07	1.47
M	0.080	0.115	2.03	2.92
N	0.012	0.025	0.30	0.64

6. Part Marking System



7. Package Information

Package	Packing Type	Tube Size	Quantity(pcs)
		mm	
TO220AC	Tube	530*32*7	50



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