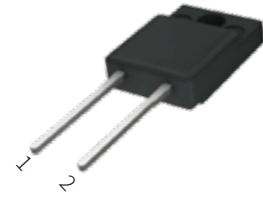


FEATURES

- Construction Utilizes Void-free Molded Plastic Technique
- Low Reverse Leakage
- High Forward Surge Current Capability



TO-220AC

MECHANICAL DATA

- Case : Molded Plastic Body
- Polarity : Polarity Symbol Marking on Body
- Mounting Position : Any



Schematic Symbol

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)

Parameter		Symbol	MUR 805	MUR 810	MUR 820	MUR 840	MUR 850	MUR 860	Unit
Marking			MUR 805	MUR 810	MUR 820	MUR 840	MUR 850	MUR 860	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	500	600	V
Maximum RMS Voltage		V _{RMS}	35	70	140	280	350	420	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	500	600	V
Maximum Average Forward Rectified Current At T _c =110°C		I _(AV)	8.0						A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load		I _{FSM}	100.0						A
Maximum Instantaneous Forward Voltage at 8.0A		V _F	1.0			1.3	1.7		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	10						mA
	T _A =125°C		500						mA
Typical Thermal Resistance		R _{θJC}	2.0						°C/W
Maximum reverse recovery time		T _{rr}	35						ns
Operating junction temperature range		T _J	-55 ~ +175						°C
Storage temperature range		T _{STG}	-55 ~ +150						°C

Note: 1. Reverse recovery time test condition: $I_F=0.5\text{A}$ $I_R=1.0\text{A}$ $I_{rr}=0.25\text{A}$

CHARACTERISTIC CURVES

Fig.1 -Derating Curve Output Rectified Current

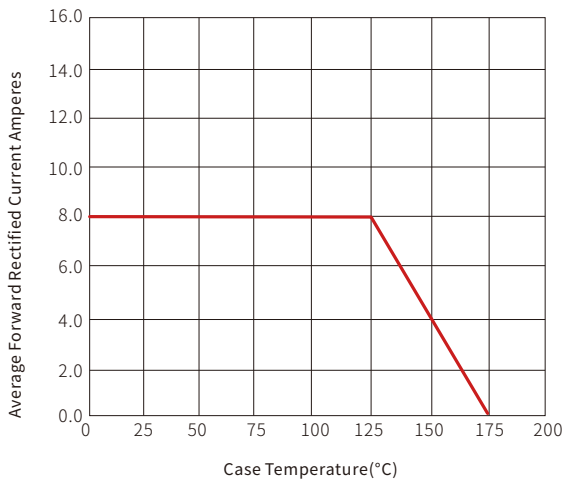


Fig.2 -Maximum Non-Repetitive Peak Forward Surge Current Perleg

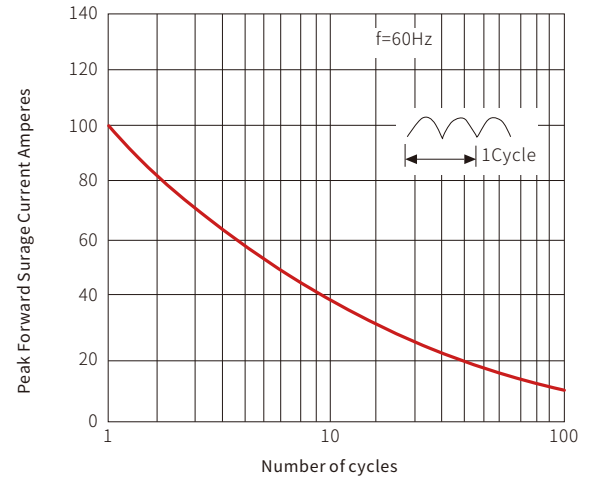


Fig.3 -Typical Forward Voltage Characteristics

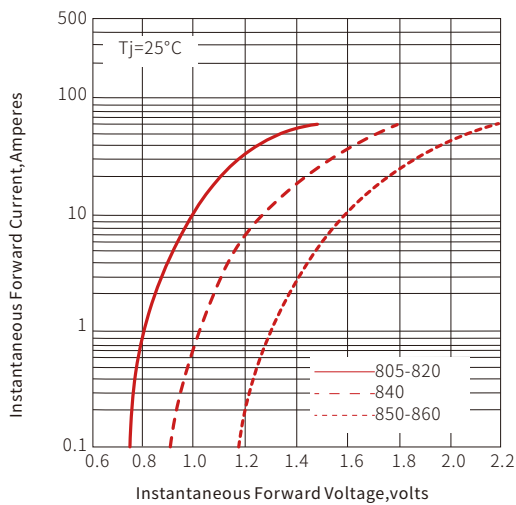
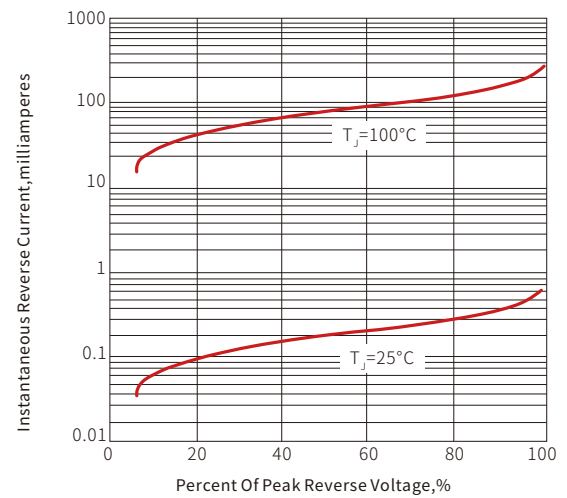
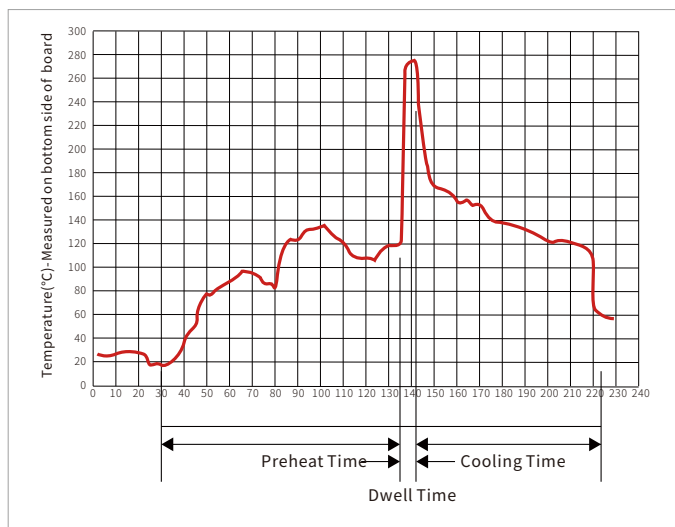


Fig.4 -Typical Reverse Leakage Characteristics

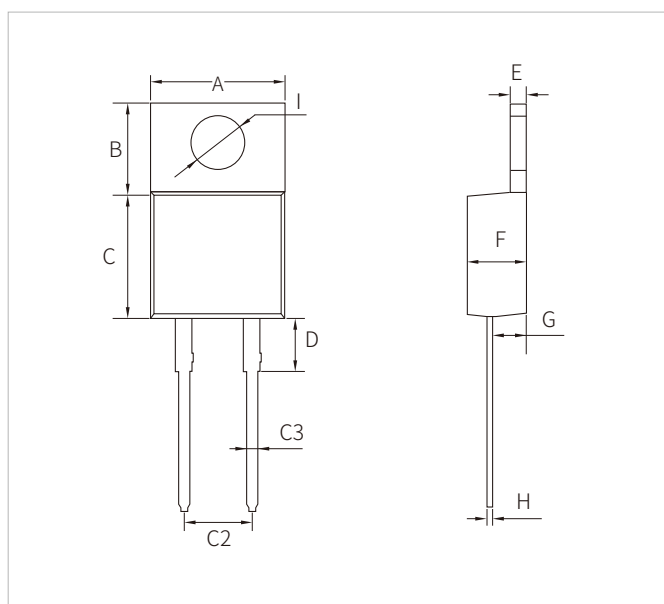


WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

TO-220AC PACKAGE MECHANICAL DATA



Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	-	10.7	-	0.421
B	14.5	15.5	0.571	0.610
C	13.0	14.6	0.510	0.576
C2	4.90	5.30	0.192	0.208
C3	0.69	0.94	0.027	0.037
D	3.16	4.46	0.124	0.176
E	1.14	1.40	0.045	0.055
F	4.00	5.10	0.155	0.200
G	2.14	3.19	0.084	0.126
H	0.28	0.64	0.011	0.025
I	3.34	4.31	0.131	0.170

ORDERING INFORMATION

Part Number	Component Package	QTY/Tube	QTY/Box	QTY/Carton
MUR805-MUR860	TO-220AC	50PCS	1000PCS	5000PCS

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By QR Code

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