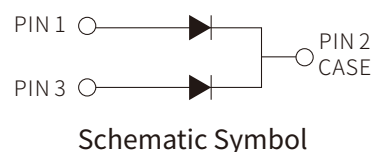
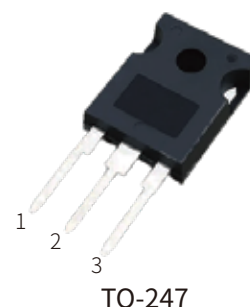


FEATURES

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

MECHANICAL DATA

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



APPROVALS

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

MAXIMUM RATINGS AND CHARACTERISTICS (T_A=25°C)

Parameter		Symbol	MUR 3005PT	MUR 3010PT	MUR 3020PT	MUR 3040PT	MUR 3050PT	MUR 3060PT	Unit
Marking			MUR 3005PT	MUR 3010PT	MUR 3020PT	MUR 3040PT	MUR 3050PT	MUR 3060PT	
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	
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	500	600	
Maximum Average Forward Rectified Current at T _C =110°C	per device	I _(AV)	30.0						A
	per diode		15.0						
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed On Rated Load		I _{FSM}	200.0						
Maximum Instantaneous Forward Voltage Per Diode at 15.0A		V _F	1.0			1.4	2.2		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	10						μA
	T _A =125°C		500						
Maximum Reverse Recovery Time ¹⁾		T _{rr}	35			50			ns
Typical Thermal Resistance		R _{BJC}	3.5						°C/W
Operating Junction And Storage Temperature Range		T _J ,T _{STG}	-55 to +150						°C

Note:

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

CHARACTERISTIC CURVES

Fig. 1- Derating Curve Output Rectified Current

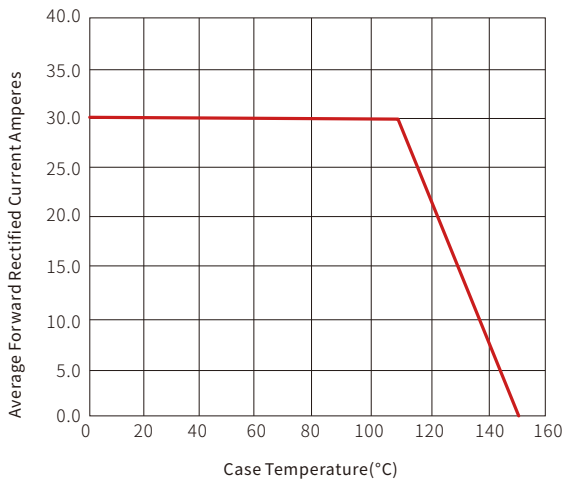


Fig. 2-Maximum Non-Repetitive Peak Forward Surge Current Perleg

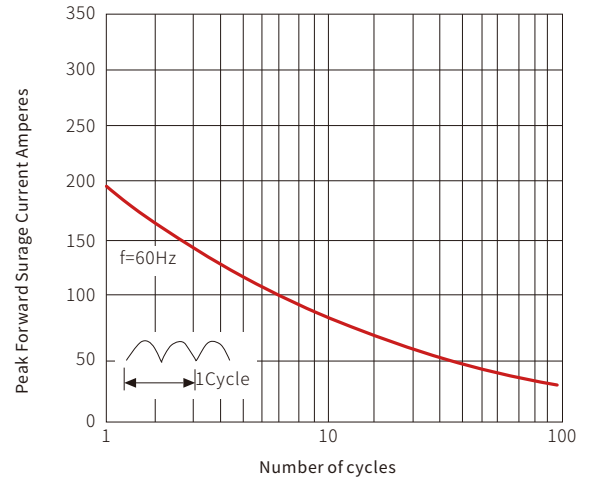


Fig. 3-Typical Forward Voltage Characteristics

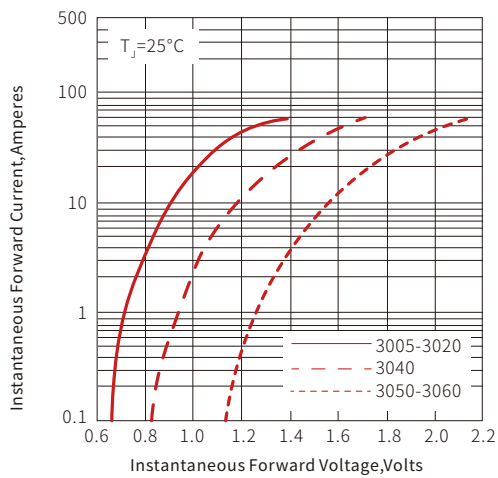
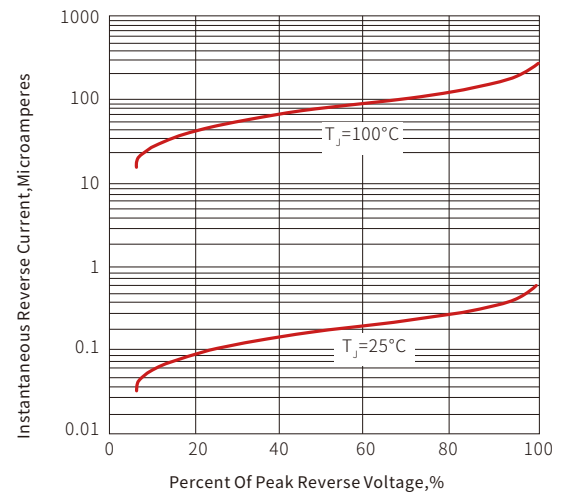
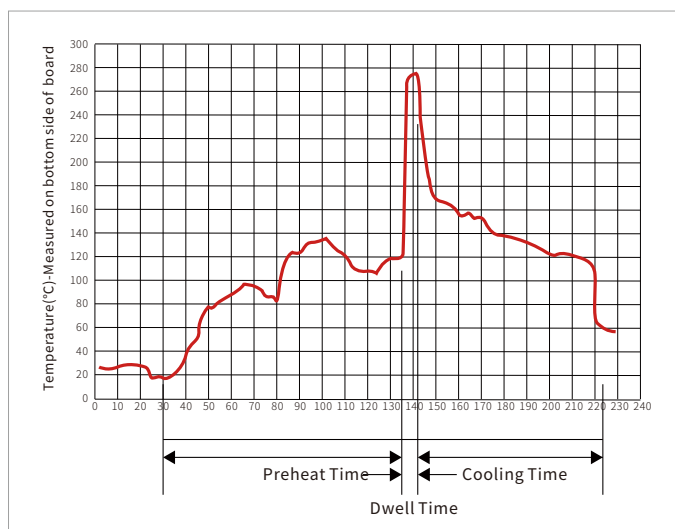


Fig. 4-Typical Reverse Leakage Characteristics

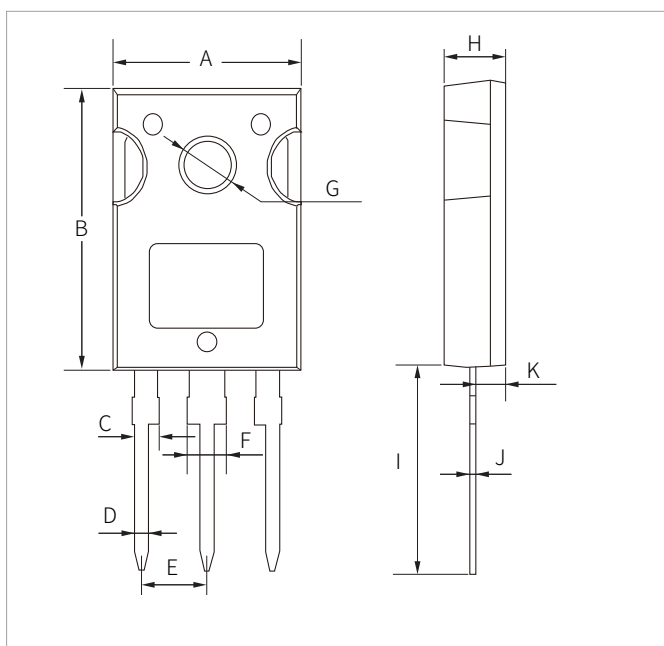


WAVE SOLDERING



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-247 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	15.4	15.8	0.606	0.662
B	19.5	20.5	0.767	0.807
C	1.8	2.2	0.070	0.087
D	1.15	1.25	0.045	0.050
E	5.2	5.7	0.204	0.225
F	2.8	3.2	0.110	0.126
G	3.4	3.8	0.133	0.149
H	4.8	5.2	0.188	0.205
I	14.0	14.5	0.550	0.570
J	0.4	0.7	0.015	0.029
K	2.4		0.095	

ORDERING INFORMATION

Part Number	Component Package	QTY/Tube	QTY/Box	QTY/Carton
MUR3005PT-MUR3060PT	TO-247	30PCS	450PCS	2250PCS

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By QR Code

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