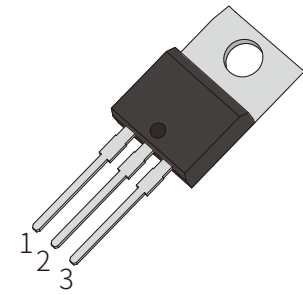


FEATURES

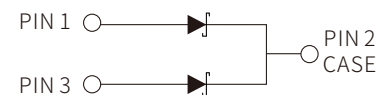
- | High current capability
- | Low forward voltage drop
- | Low power loss, high efficiency
- | High surge capability



TO-220AB

MECHANICAL DATA

- | Case : TO-220AB
- | High temperature soldering guaranteed
- | Mounting Position : Any



Schematic Symbol

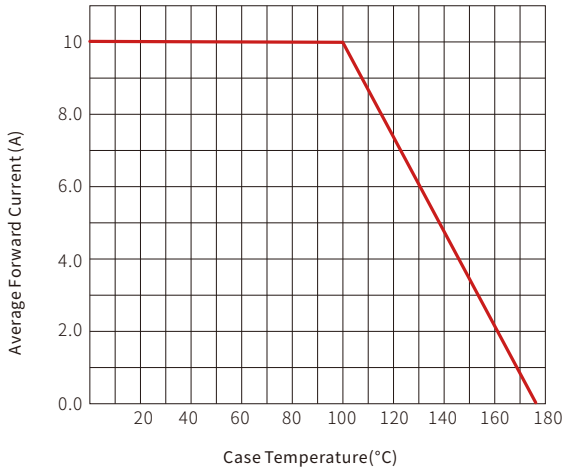
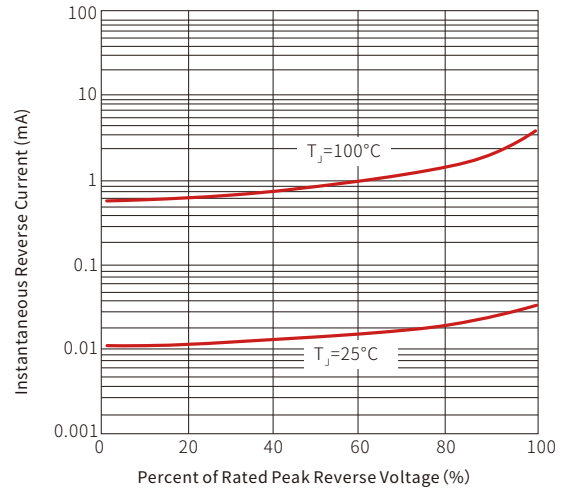
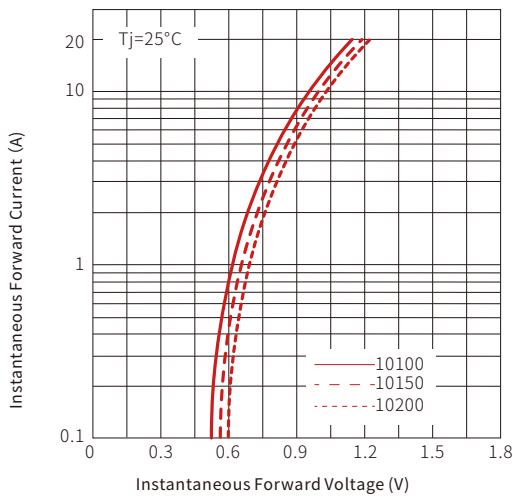
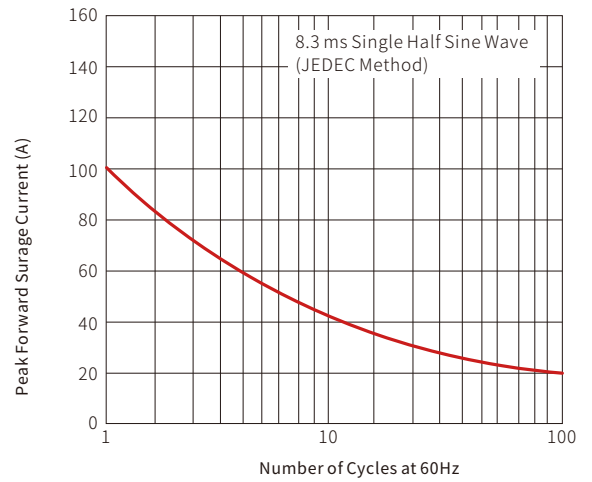
APPROVALS

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

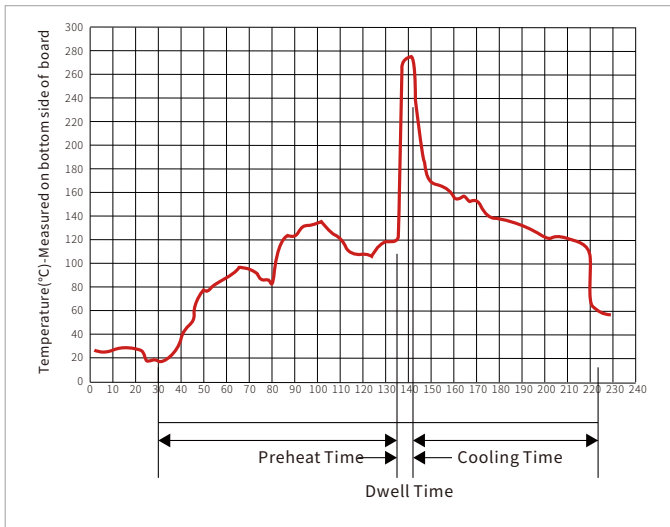
MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	MBR10100CT	MBR10150CT	MBR10200CT	Unit
Marking		MBR10100CT	MBR10150CT	MBR10200CT	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	150	200	V
Maximum RMS Voltage	V_{RMS}	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	100	150	200	V
Maximum Average Forward Rectified Current	per leg	5			A
	per device	10			
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) per leg	I_{FSM}	100			A
Max Instantaneous Forward Voltage at 5 A(per leg)	V_F	0.85	0.90	0.92	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^{\circ}\text{C}$	0.05			mA
	$T_A=100^{\circ}\text{C}$	10			mA
Typical Thermal Resistance	$R_{\theta JC}$	4			$^{\circ}\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	-55 to +150	-55 to +175		$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	-55 to +175		$^{\circ}\text{C}$

CHARACTERISTIC CURVES

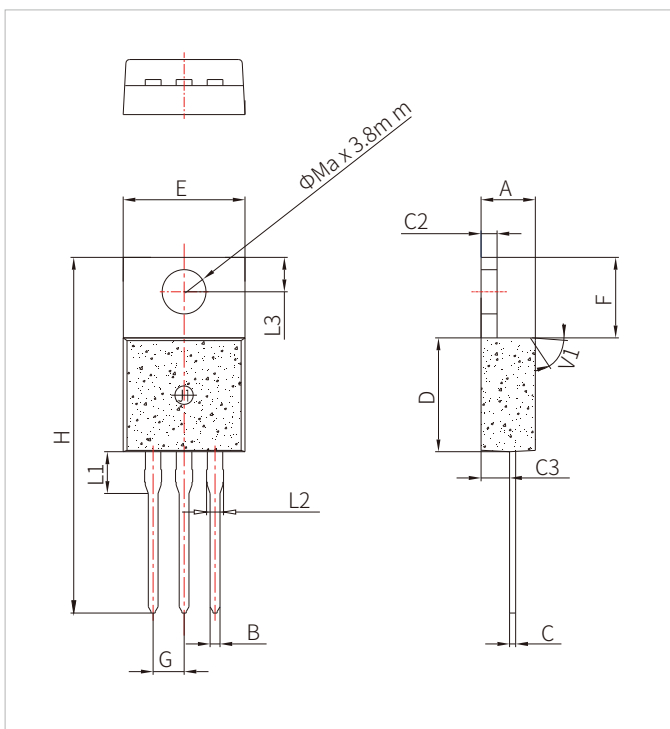
Fig. 1- Typical Forward Current Derating Curve

Fig. 2-Typical Reverse Characteristics

Fig. 3-Typical Forward Characteristic(per leg)

Fig. 4-Maximum Non-Repetitive Peak Forward Surge Current


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-220AB PACKAGE MECHANICAL DATA



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.40		4.60	0.173		0.181
B	0.61		0.88	0.024		0.035
C	0.46		0.70	0.018		0.028
C2	1.21		1.32	0.048		0.052
C3	2.40		2.72	0.094		0.107
D	8.60		9.70	0.339		0.382
E	9.80		10.4	0.386		0.409
F	6.55		6.95	0.258		0.274
G		2.54			0.1	
H	28.0		29.8	1.102		1.173
L1		3.75			0.148	
L2	1.14		1.70	0.045		0.067
L3	2.65		2.95	0.104		0.116
V1		45°			45°	

ORDERING INFORMATION

Part Number	Component Package	QTY/Tube	QTY/Box	QTY/Carton
MBR10100CT-MBR10200CT	TO-220AB	50PCS	1000PCS	5000PCS



Website



Wechat