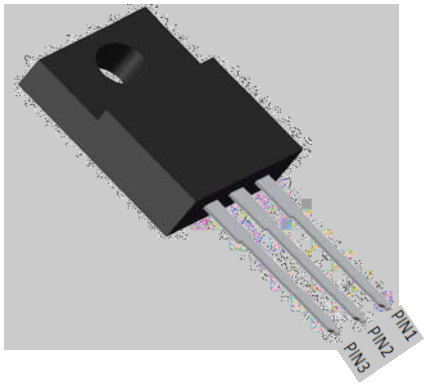
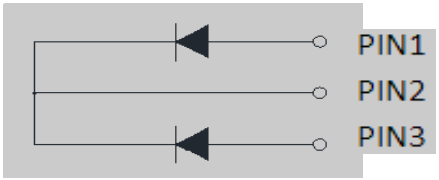
RoHS
COMPLIANT





- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

- : ITO-220AB
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- : As marked

■ (T_a=25 Unless otherwise specified

Device marking code			MBR30100FCTS	MBR30150FCTS	MBR30200FCTS
Repetitive Peak Reverse Voltage	V_{RRM}	V	100	150	200
Average Rectified Output Current @60Hz sine wave, R-load, T_C=67	I_O	A	30		
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T_a=25	I_{FSM}	A	230		
Current Squared Time @1ms≤t≤8.3ms Tj=25	I^2t	A^2s	222		
Storage Temperature	T_{stg}		-55 ~ +175		
Junction Temperature	T_j		-55 ~ +175		

■ T_a=25 Unless otherwise specified

Maximum instantaneous forward voltage drop per diode	V_{FM}	V	I_{FM}=15.0A	0.85	0.9	0.95
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	V_{RM}=V_{RRM} T_a=25	0.1		
	I_{RRM2}		V_{RM}=V_{RRM} T_a=125	20		

Note1:Pulse test:300uS pulse widh,1% duty cycle

Note2:Pulse test:pulse widh 40mS

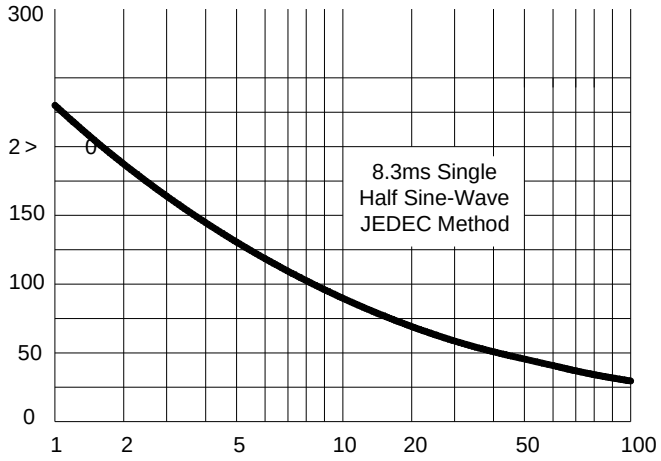
■ T_a=25 Unless otherwise specified

Thermal Resistance	Between junction and case	$R_{\theta J-C}$	/W	4.0		

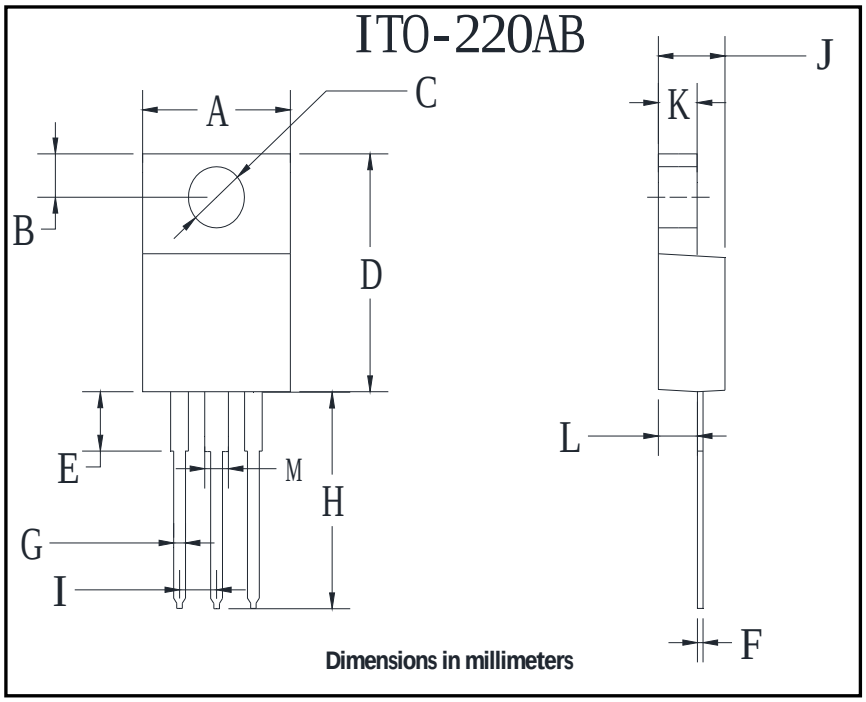
■ (Example)

MBR30100FCTS THRU MBR30200FCTS	Approximate 1.6	50	1000	5000	Tube

■ (Typical)



■



Dim	Min	Max
A	9.8	10.2
B	2.25	2.75
C	2.95	3.45
D	14.75	15.25
E	3.05	3.95
F	0.45	0.75
G	0.45	0.75
H	13.4	14.2
I	2.35	2.75
J	4.3	4.8
K	2.58	2.82
L	2.58	2.82
M	1.47	1.77

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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