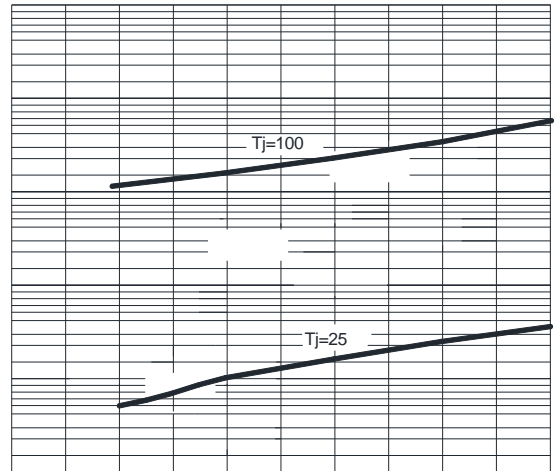


High frequency operation
 Low forward voltage drop
 High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
 Guard ring for enhanced ruggedness and long term reliability
 Solder dip 275 °C max. 7 s, per JESD 22-B106

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

@ : ITO-220A
 Molding compound meets UL 94 V-0 flammability rating meS0omeni-

Device marking code			MBR1045FCT
Repetitive Peak Reverse Voltage	V_{RRM}	V	45
Average Rectified Output Current @60Hz sine wave, R-load, T_c (FIG.1)	I_o	A	10
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_j=25$	I_{FSM}	A	100
Surge(Non-repetitive)Forward Current @1ms square wave, 1 time, $T_j=25$			200
Current Squared Time @1ms t 8.3ms $T_j=25$	I^2t	A^2s	41
Typical junction capacitance M Applied Reverse Voltage of 4.0 V.D.C.	C_j	pF	273
Storage Temperature	T_{stg}		-55 ~ +150
Junction Temperature	T_j		-55 ~ +150
Mounting torque @recommend torque 5kg cm	Tor	kg cm	8



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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