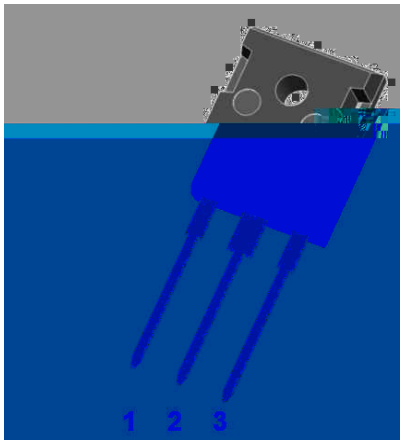
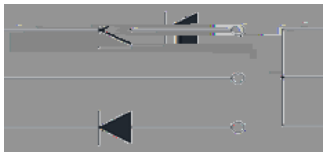
RoHS
COMPLIANT





- High frequency operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Gu Tin plated leads, solderable per J-STD-002 and JESD22-B102
- : As marked

■ (Ta=25 Unless otherwise specified

Device marking code			MBR40200PT
Repetitive Peak Reverse Voltage	V_{RRM}	V	200
Average Rectified Output Current @60Hz sine wave, R-load, Tc=139	I_O	A	40
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25	I_{FSM}	A	300
Current Squared Time @1ms≤t≤8.3ms Tj=25	I^2t	A^2s	373
Storage Temperature	T_{stg}		-55 ~ +175
Junction Temperature	Tj		-55 ~ +175

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Peak Forward Voltage	V_{FM}	V	I_{FM}=20.0A Tj=25	0.5	0.85	0.9
			I_{FM}=20.0A Tj=125	-	0.74	0.78
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	$V_{RM}=V_{RRM}$			
Junction capacitance	Cj	pF	1MHz and Applied Reverse Voltage of 4.0 V.D.C	200	320	550

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 ambient	$R_{\theta J-A}$	/W	50.0
	Between junction and case	$R_{\theta J-C}$		

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Dim	Min	Max
A	4.80	5.20
A1	2.21	2.61
A2	1.85	2.15
b	1.0	1.4
b2	1.91	2.21
C	0.5	0.7
D	20.70	21.30
D1	16.25	16.85
E	15.50	16.10
E1	13.0	13.6
E2	4.80	5.20
E3	2.30	2.70
L	19.62	20.22
L1	-	4.30
ΦP	3.40	3.80
ΦP1	-	7.30
S	6.15TYP	
H1	5.44TYP	
b3	2.80	3.20

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