



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

($T_a=25$ Unless otherwise specified)

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

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

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

Note2:Pulse test:pulse width 40mS



$T_a=25$ Unless otherwise specified

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



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
P	3.40	3.80
P1	-	7.30
S	6.15TYP	
H1	5.44TYP	
b3	2.80	3.20



The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

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 which 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.