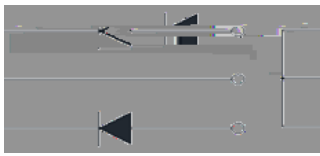
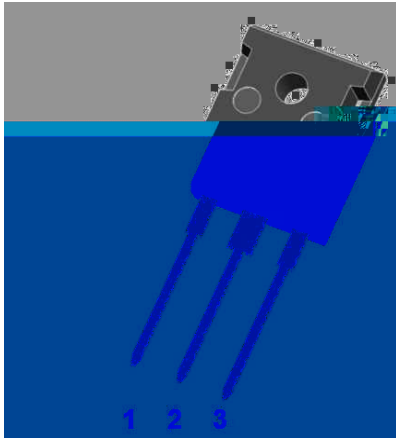


## Schottky Diodes



### Features

- 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

**Polarity:** As marked

### Maximum Ratings ( $T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR40200PT
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 <sup>2</sup> s	373
Storage Temperature	$T_{stg}$		-55 ~ +175
Junction Temperature	$T_j$		-55 ~ +175

### Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
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



# MBR40200PT

## Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MBR40200PT
Thermal Resistance	Between junction and ambient	$R_{J-A}$	$^{\circ}W$	50.0
	Between junction and case	$R_{J-C}$		



## Outline Dimensions

TO-247AB		
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



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