

60A,200V Schottky Barrier Rectifier

Features

- Low forward voltage, low power loss
- Low leakage current
- High surge current
- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- Halogen-free according to IEC 61249-2-21

Applications

- SMPS
- Adapter
- Server Power

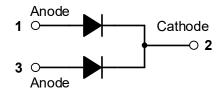
Mechanical Data

- Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 30 units per plastic tube

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	MBR60200PT	Unit	
Maximum repetitive peak reverse voltage	Vrrm	200	V	
Maximum RMS voltage	VRMS	140	V	
Maximum DC blocking voltage	VDC	200	V	
Maximum average forward	lf(AV)	60	А	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	IFSM	400	А	
Operating junction temperature range	TJ	-55 to +150	°C	
Storage temperature range	Тѕтс	-55 to +150	°C	



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Electrical Specifications (TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Тур	Max	Unit	
Forward drop voltage ^(Note1)	VF	IF=30A, TJ =25℃	-	0.90		
		IF=30A, TJ =125℃	-	0.80		
		IF=60A, TJ =25℃	-	-	V	
		IF=60A, TJ =125℃	-	-	1	
Reverse leakage current @VR (Note2)	IR	TJ =25 ℃	-	50	uA	
		TJ =100℃	-	5	mA	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)				
Parameter	Symbol	Тур	Unit	
Thermal Resistance, Junction to Case	Rejc	0.8	°C /W	
Thermal Resistance, Junction to Ambient	Reja	62.5	°C /W	

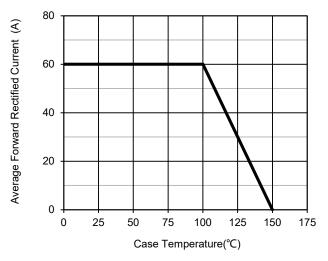
Note:

- 1. Pulse test with PW=0.3ms, duty cycle=2%
- 2. Pulse test with PW=30ms



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)





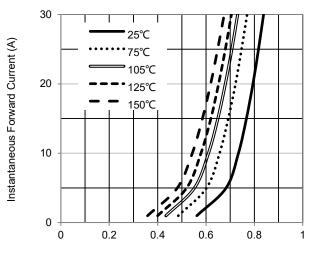




Fig.3 – Typical Forward Voltage Characteristics

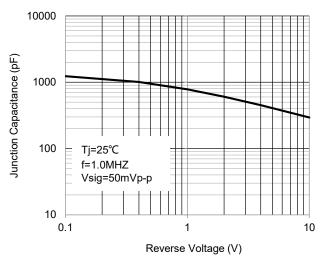


Fig.5 – Typical Junction Capacitance

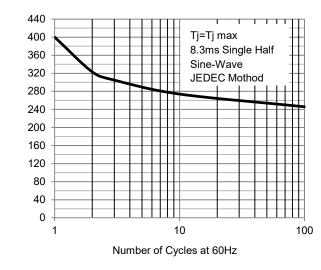


Fig.2 – Maximum Non-Repetitive Surge Current

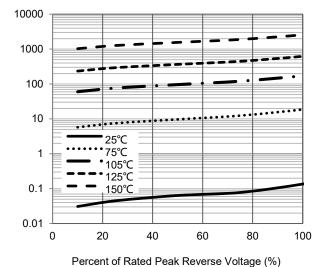


Fig.4 – Typical Reverse Current Characteristics

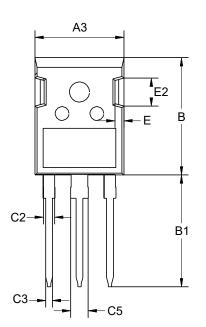
Peak Forward Surge Current(A)

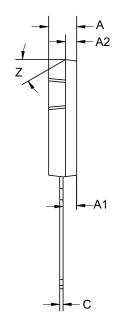
Instantaneous Reverse Current (uA)

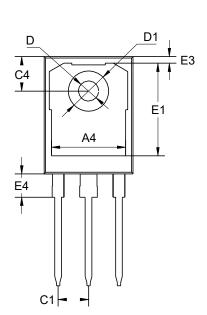


Package Outline Dimensions (Unit: millimeters)

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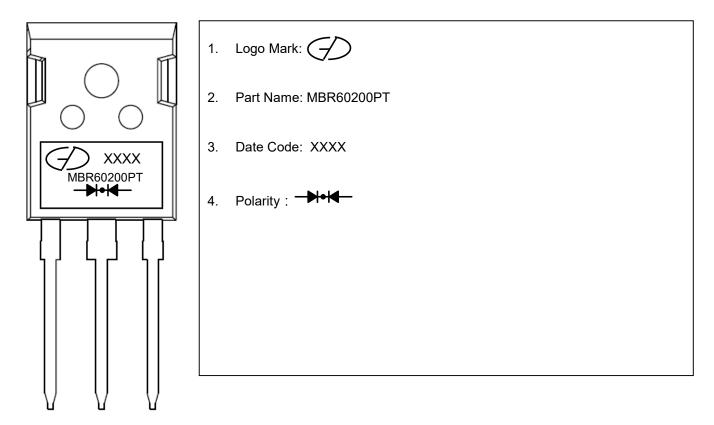




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	Min.	Nom.	Max.		Min.	Nom.	Max.
А	4.7	5	5.2	C4	6.04	6.15	6.30
A1	2.3		2.5	C5	2.8	3	3.2
A2	1.9	2	2.1	D	3.5	3.6	3.7
A3	15.48	15.88	16.28	D1	7	7.19	7.4
A4	13.06	13.26	13.56	Е	1.5	1.6	1.7
В	20.8	20.95	21.1	E1		16.55	
B1	19.8	20	20.32	E2	4.9	5.0	5.1
С	0.5	0.6	0.7	E3	0.95	1.17	1.35
C1	5.34	5.44	5.54	E4		4.17	4.5
C2		2		Ζ		30°	
C3	1.1	1.2	1.3				



Marking Outline



Revision History

Document Version	Date of release	Description of changes
Rev.A	2019.02.10	Released Datasheet
Rev.B	2021.01.19	Modify document format
Rev.C	2022.04.29	Modify ratings and characteristics curves



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