

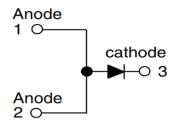
3A,200V Schottky Barrier Rectifier

Features

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



PDFN56



Applications

- SMPS
- Adapter
- Server Power

Mechanical Data

- Case: Epoxy, Molded
- Weight: 1.9grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 3000 units per plastic tube

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	MBRP3200	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)	3	Α	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load	IFSM	70	Α	
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 Dran Voltage (Note1)	VF	IF=3A, TJ =25℃	-	0.92	V	
Forward Drop Voltage (Note1)		IF=3A, TJ =125℃	-	0.87		
Poverse leakage current @\/P (Note2)	lR	TJ =25℃	-	200	uA	
Reverse leakage current @VR (Note2)		TJ =100℃	-	15	mA	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)				
Parameter	Symbol	Тур	Unit	
Thermal Resistance, Junction to Case	Rejc	2.5	°C /W	
Thermal Resistance, Junction to Ambient	RөJA	50	°C /W	

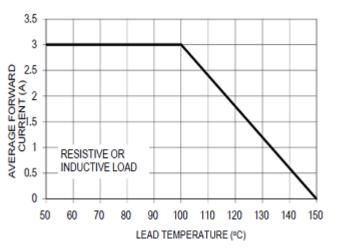
Note:

- 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)



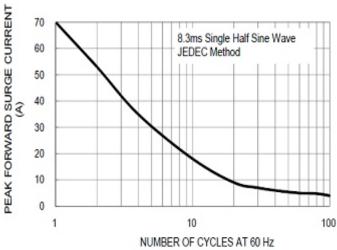


Fig.1 - Forward Current Derating Curve 100 Instantaneous Forward Current (A) 10 0.1 =125°C =25°C 0.01 0.9 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 1.0 Instantaneous Forward Voltage (V)

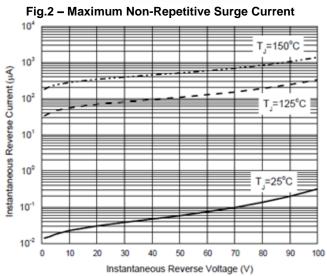


Fig.3 - Typical Forward Voltage Characteristics

Fig.4 - Typical Reverse Current Characteristics

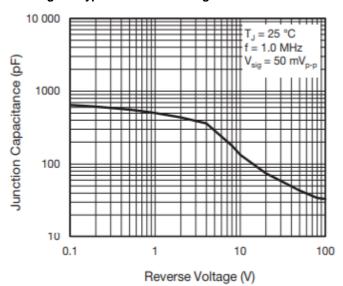
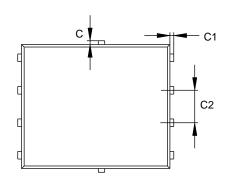


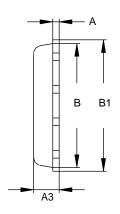
Fig.5 - Typical Junction Capacitance

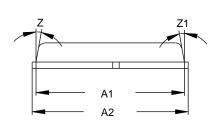


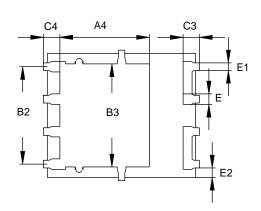
Package Outline Dimensions (Unit: millimeters)

PDFN56







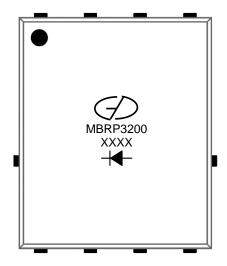


PDFN56							
	Min.	Nom.	Max.		Min.	Nom.	Max.
Α	0.15	0.25	0.35	C1	0.05	0.15	0.25
A1	5.6	5.8	6.0	C2	1.17	1.27	1.37
A2	5.9	6.1	6.3	C3	0.53	0.63	0.73
А3	0.9	1	1.1	C4		0.63	
A4		3.5		Е	0.31	0.41	0.51
В	4.7	4.9	5.1	E1	0.2	0.3	0.4
B1	5	5.2	5.4	E2	0.25	0.35	0.45
B2	3.71	3.81	3.91	Z	8°	10°	12°
В3		4		Z1	8°	10°	12°
С	0.05	0.15	0.25				





Marking Outline



Logo Mark:

2. Part Name: MBRP3200

3. Data Code: XXXX

4. Polarity :

Revision History

Document Version	Date of release	Description of changes
Rev.A	2013.12.10	Released Datasheet
Rev.B	2021.01.12	Modify document format





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