

GOOD-ARK Electronics

10A,100V Schottky Barrier Rectifier

Features

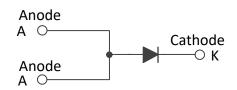
- Low leakage current
- Low forward voltage, low power loss
- High surge current
- Plastic package has underwriters Laboratory
 Flammability Classification 94V-0
- Halogen-free according to IEC 61249-2-21



PDFN56

Applications

- SMPS
- Adapter
- Server Power



Mechanical Data

- Case: Epoxy, Molded
- 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 reel

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	AMBRP10H100	Unit	
Maximum repetitive peak reverse voltage	VRRM	100	٧	
Maximum RMS voltage	VRMS	70	V	
Maximum DC blocking voltage	VDC	100	٧	
Maximum average forward	I F(AV)	10	Α	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	İFSM	180	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 drop voltage (Note1)	VF	IF=10A, TJ =25℃	0.76	-	V	
		IF=10A, TJ =125℃	0.62	-		
Payarea lagkage surrent @V/D (Note2)	lR	TJ =25℃	-	10	uA	
Reverse leakage current @VR (Note2)		TJ =100℃	-	2.5	mA	

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)				
Parameter	Symbol	Тур	Unit	
Thermal Resistance, Junction to Case	Rejc	3	°C /W	
Thermal Resistance, Junction to Ambient	Reja	50	°C /W	

Note:

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

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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

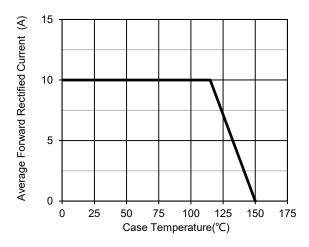


Fig.1 – Forward Current Derating Curve

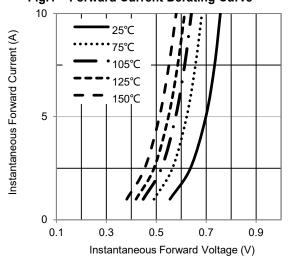


Fig.3 – Typical Forward Voltage Characteristics

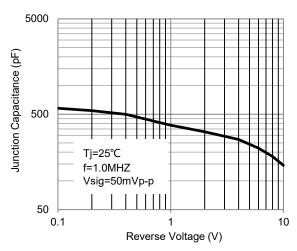


Fig.5 - Typical Junction Capacitance

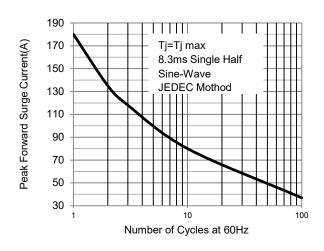


Fig.2 - Maximum Non-Repetitive Surge Current

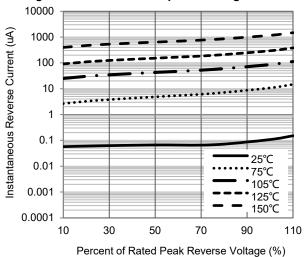
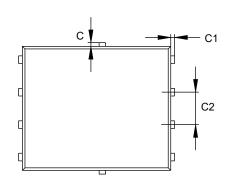


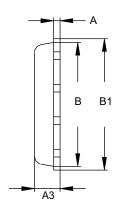
Fig.4 - Typical Reverse Current Characteristics

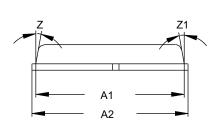


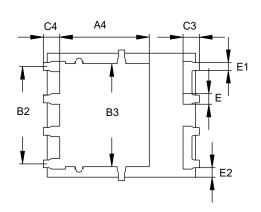
Package Outline Dimensions (Unit: millimeters)

PDFN56





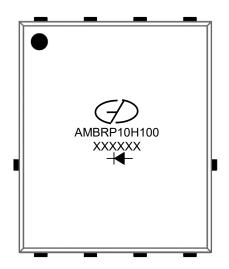




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	Min.	Nom.	Max.		Min.	Nom.	Max.
Α	0.15	0.25	0.35	C1	0.05	0.15	0.25
A1	5.6	5.8	6.0	C2	1.17	1.27	1.37
A2	5.9	6.1	6.3	C3	0.53	0.63	0.73
А3	0.9	1	1.1	C4		0.63	
A4		3.5		Е	0.31	0.41	0.51
В	4.7	4.9	5.1	E1	0.2	0.3	0.4
B1	5	5.2	5.4	E2	0.25	0.35	0.45
B2	3.71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

AMBRP10H100 GOOD-ARK Electronics

Marking Outline



1. Logo Mark:

Part Name: AMBRP10H100

Date Code: XXXXXX

4. Polarity : —

Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.7.2	Released Datasheet



AMBRP10H100

GOOD-ARK Flectronics

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