

GOOD-ARK Electronics

30A,200V Schottky Barrier Rectifier

Features

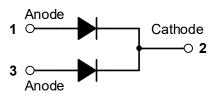
- Low forward voltage, low power loss
- Low leakage current
- High surge current
- Plastic package has underwriters Laboratory
 Flammability Classification 94V-0
- Halogen-free according to IEC 61249-2-21



TO-220AB

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 50 units per plastic tube

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	AMBR30200CT	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)	30	Α	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	IFSM	200	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=15A, TJ =25℃	0.84	1.00		
		IF=15A, TJ =125℃	-	0.92		
		IF=30A, TJ =25℃	-	-	V	
		IF=30A, TJ =125℃	-	-		
Deverse leakage current @VD (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	2.0	°C /W	
Thermal Resistance, Junction to Ambient	Røja	62.5	°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)

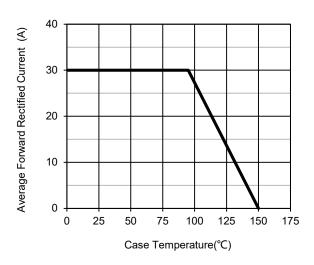


Fig.1 - Forward Current Derating Curve

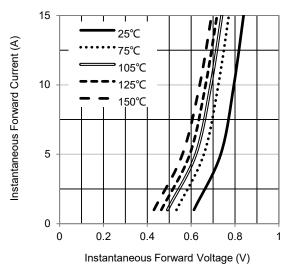


Fig.3 - Typical Forward Voltage Characteristics

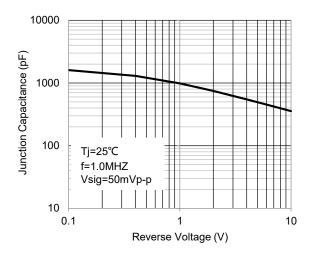


Fig.5 – Typical Junction Capacitance

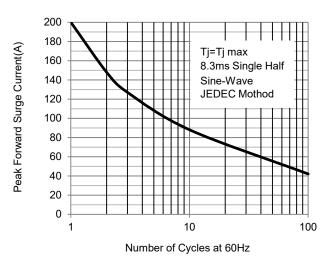


Fig.2 - Maximum Non-Repetitive Surge Current

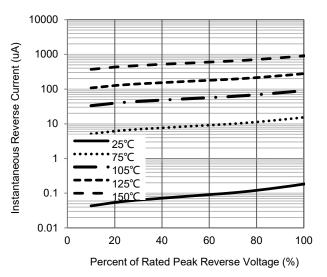
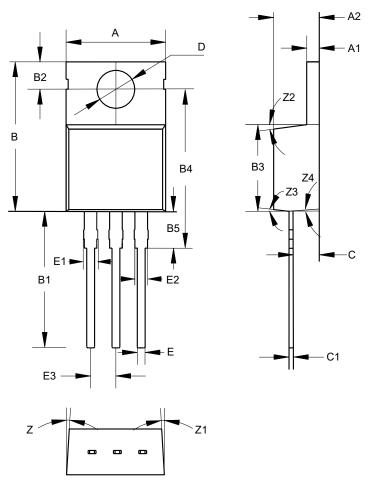


Fig.4 - Typical Reverse Current Characteristics

Package Outline Dimensions (Unit: millimeters)

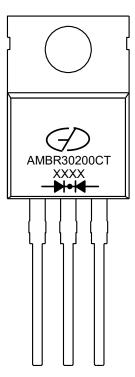
TO-220AB



	TO-220AB						
	Min.	Nom.	Max.		Min.	Nom.	Max.
Α	9.8	10	10.2	D	3.7	3.8	3.9
A1	1.17	1.27	1.37	Е	0.68	0.78	0.88
A2	4.5	4.6	4.7	E1	1.2	1.4	1.6
В	14.5	15	15.5	E2	1.17	1.27	1.37
B1	13.2	13.7	14.2	E3	2.44	2.54	2.64
B2	2.65	2.75	2.85	Ζ		3°	
В3	8.5	8.7	8.9	Z1		3°	
В4	15.5	16	16.5	Z2		7°	
B5	3.4	3.7	4.0	Z3		7°	
С	2.3	2.6	2.9	Z4		1.5°	
C1	0.28	0.38	0.48				



Marking Outline



1. Logo Mark:

2. Part Name: AMBR30200CT

3. Date Code: XXXX

4. Polarity : → → →

Revision History

Document Version	Date of release	Description of changes
Rev.A	2015.12.18	Released Datasheet
Rev.B	2021.01.21	Modify document format
Rev.C	2022.04.29	Modify ratings and characteristics curves



AMBR30200CT

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