

20A,60V 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

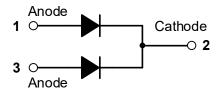
Mechanical Data

- 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 50 units per plastic tube

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	AMBR2060CT	Unit	
Maximum repetitive peak reverse voltage	Vrrm	60	V	
Maximum RMS voltage	VRMS	42	V	
Maximum DC blocking voltage	VDC	60	V	
Maximum average forward	lf(AV)	20	А	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	IFSM	150	А	
Operating junction temperature range	TJ	-55 to +150	°C	
Storage temperature range	Tstg	-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℃	0.62	0.68		
		IF=10A, TJ =125℃	-	0.63	N/	
		IF=20A, TJ =25℃	-	-	V	
		IF=20A, TJ =125℃	-	-		
Reverse leakage current @VR (Note2)	IR	TJ =25 ℃	-	100	uA	
		TJ =100℃	-	10	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	Reja	62.5	°C /W	

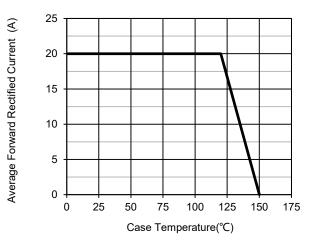
Note:

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

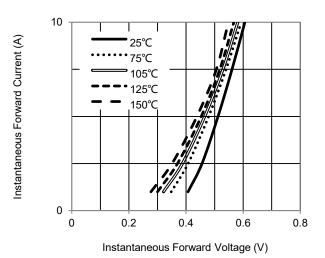


Ratings and Characteristics Curves

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$









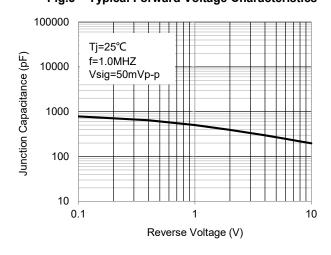
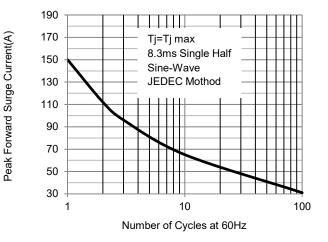


Fig.5 – Typical Junction Capacitance





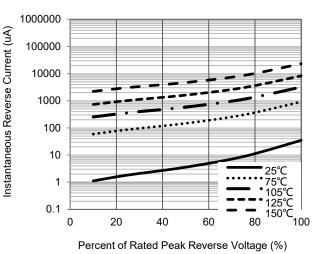


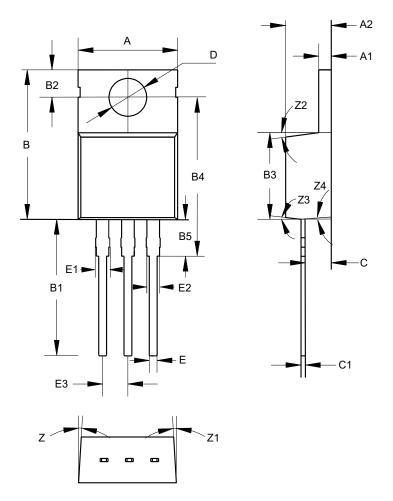
Fig.4 – Typical Reverse Current Characteristics

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Package Outline Dimensions (Unit: millimeters)

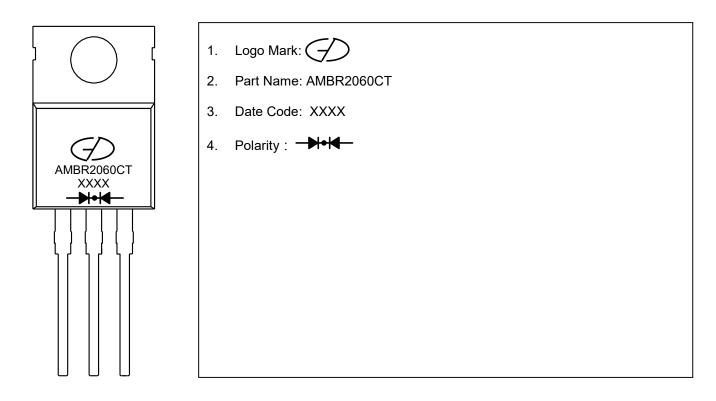
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	TO-220AB						
	Min.	Nom.	Max.		Min.	Nom.	Max.
А	9.8	10	10.2	D	3.7	3.8	3.9
A1	1.17	1.27	1.37	Е	0.68	0.78	0.88
A2	4.5	4.6	4.7	E1	1.2	1.4	1.6
В	14.5	15	15.5	E2	1.17	1.27	1.37
B1	13.2	13.7	14.2	E3	2.44	2.54	2.64
B2	2.65	2.75	2.85	Ζ		3°	
B3	8.5	8.7	8.9	Z1		3°	
B4	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



Revision History

Document Version	Date of release	Description of changes
Rev.A	2015.10.15	Released Datasheet
Rev.B	2021.01.20	Modify document format
Rev.C	2022.04.29	Modify ratings and characteristics curves



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