

GOOD-ARK Electronics

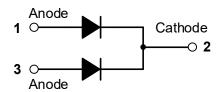
20A,60V Schottky Barrier Rectifier

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



TO-252 (D-PAK)



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 2500 units per reel

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	AMBRD2060CT	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	Α	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	İFSM	150	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℃	0.62	0.70		
		IF=10A, TJ =125℃	-	0.63	V	
		IF=20A, TJ =25℃	-	-	V	
		IF=20A, TJ =125℃	-	-		
Deviage legitage augment (AVD (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	4.0	°C /W		
Thermal Resistance, Junction to Ambient	RθJA	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)

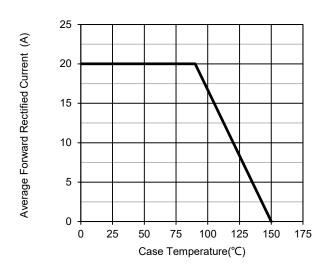


Fig.1 - Forward Current Derating Curve

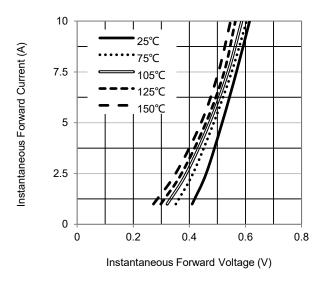


Fig.3 - Typical Forward Voltage Characteristics

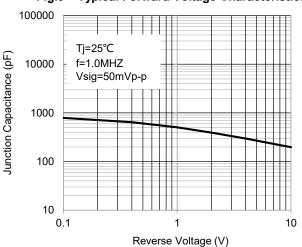


Fig.5 - Typical Junction Capacitance

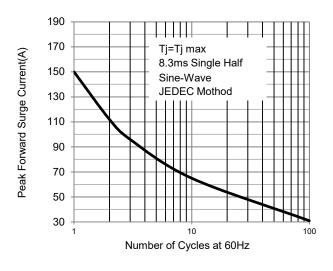
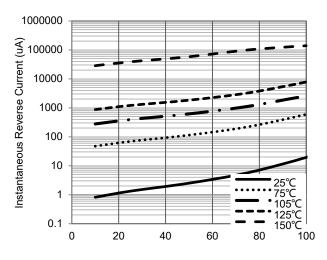


Fig.2 – Maximum Non-Repetitive Surge Current



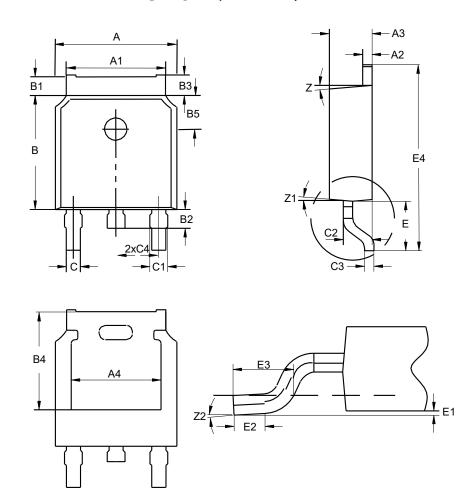
Percent of Rated Peak Reverse Voltage (%)

Fig.4 - Typical Reverse Current Characteristics



Package Outline Dimensions (Unit: millimeters)

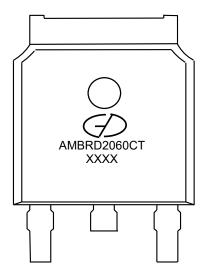
TO-252 (D-PAK)



	TO-252						
	Min.	Nom.	Max.		Min.	Nom.	Max.
Α	6.34	6.54	6.74	C1	0.65	0.85	1.05
A1	5.1	5.3	5.5	C2	1.34	1.54	1. 74
A2	0.4	0.5	0.6	C3	0.4	0.5	0.6
А3	2.08	2.28	2.48	C4	2.09	2.29	2.49
A4	4.6	4.8	5.0	Е	2.6	2.9	3.2
В	5.8	6.1	6.4	E1	0		0.15
B1	0.82	1.02	1.22	E2	0.7		
B2	0.8	1	1.2	E3	1.3	1.6	1.9
В3	0.9	1.1	1.3	E4	9.8	10.1	10.4
В4	5.05	5.25	5.45	Z		7°	
B5	7.83	8.03	8.23	Z1		7°	
С	0.56	0.76	0.96	Z2	0°		10°



Marking Outline



1. Logo Mark:

2. Part Name: AMBRD2060CT

3. Date code: XXXX

Revision History

Document Version	Date of release	Description of changes
Rev.A	2013.12.18	Released Datasheet
Rev.B	2021.01.22	Modify document format
Rev.C	2022.04.29	Modify ratings and characteristics curves



AMBRD2060CT

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