

30A,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

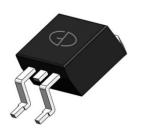
Applications

- SMPS
- Adapter
- Server Power

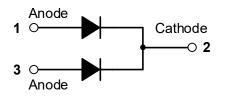
Mechanical Data

- 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 or tape reel packing 800/reel

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)				
Parameter	Symbol	MBRB3060CT	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	IF(AV)	30	А	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	IFSM	200	А	
Operating junction temperature range	TJ	-55 to +150	°C	
Storage temperature range	Tstg	-55 to +150	°C	



TO-263AB(D²PAK)





Electrical Specifications (TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Тур	Max	Unit	
Forward drop voltage ^(Note1)	VF	IF=15A, TJ =25℃	0.73	0.78	V	
		IF=15A, TJ =125℃	-	0.68		
		IF=30A, TJ =25℃	-	-		
		IF=30A, TJ =125℃	-	-		
Reverse leakage current @VR (Note2)	lR	TJ =25 ℃	-	200	uA	
		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	Reja	62.5	°C /W	

Note:

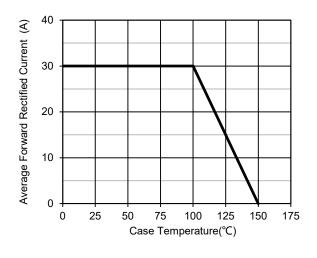
- 1. Pulse test with PW=0.3ms, duty cycle=2%
- 2. Pulse test with PW=30ms



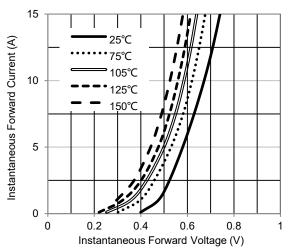
MBRB3060CT GOOD-ARK Electronics

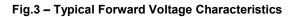
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)









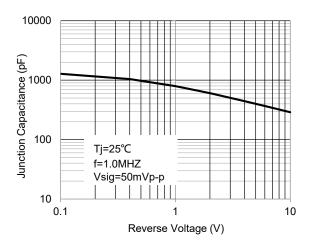


Fig.5 – Typical Junction Capacitance

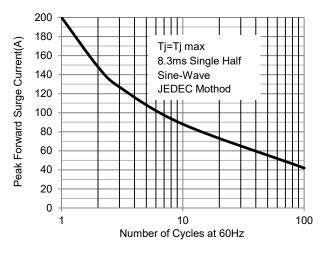


Fig.2 – Maximum Non-Repetitive Surge Current

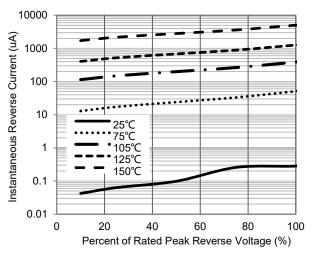
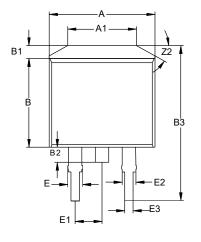


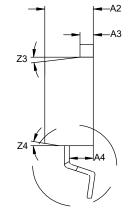
Fig.4 – Typical Reverse Current Characteristics

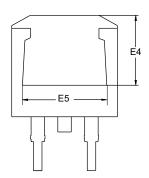


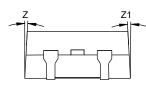
Package Outline Dimensions (Unit: millimeters)

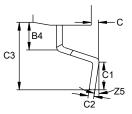
TO-263AB







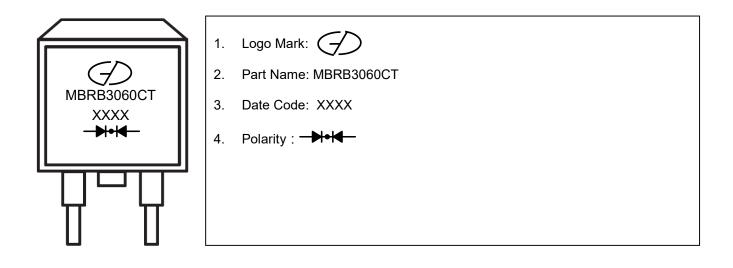




	TO-263AB						
	Min.	Nom.	Max.		Min.	Nom.	Max.
А	9.8	10	10.2	C3	5	5.3	5.6
A1	6.5			Е	1.17	1.37	1.57
A2	4.4	4.6	4.8	E1	2.44	2.54	2.64
A3	1.17	1.27	1.37	E2	1.17	1.27	1.37
A4	2.37	2.67	2.97	E3	0.7	0.8	0.9
В	8.5	8.7	8.9	E4	6.47	6.67	6.87
B1	1.07	1.27	1.47	E5	8.3	8.5	8.7
B2	1.2	1.5	1.8	Ζ		3°	
B3	15	15.3	15.6	Z1		3°	
B4	1.8	2	2.2	Z2		30°	
С	0		0.25	Z3		7°	
C1	2.34	2.54	2.74	Z4		7°	
C2	0.3	0.4	0.5	Z5	-4°		4°



Marking Outline



Revision History

Document Version	Date of release	Description of changes
Rev.A	2013.12.18	Released Datasheet
Rev.B	2021.01.13	Modify document format
Rev.C	2022.04.29	Modify ratings and characteristics curves



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