



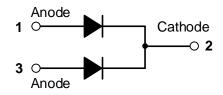
20A,150V Schottky Barrier Rectifier

Features

- Low forward voltage, low power loss
- Guarding for over voltage protection
- 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
- Weight: 0.4grams (approximately)
- 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	MBRD20150CT	Unit	
Maximum repetitive peak reverse voltage	VRRM	150	V	
Maximum RMS voltage	VRMS	105	V	
Maximum DC blocking voltage	VDC	150	V	
Maximum average forward	IF(AV)	20	Α	
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load	İFSM	150	А	
Operating junction temperature range	TJ	-55 to +150	°C	
Storage temperature range	Тѕтс	-55 to +150	°C	



Electrical Specifications (TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Тур	Max	Unit	
	VF	IF=10A, TJ =25℃	-	0.92		
Farmend Dunn Valtage (Note1)		IF=10A, TJ =125℃	-	0.82	V	
Forward Drop Voltage (Note1)		IF=20A, TJ =25℃	-	-		
		IF=20A, TJ =125℃	-	-		
Davidad Inches	IR	TJ =25℃	-	50	uA	
Reverse leakage current @VR (Note2)		TJ =100℃	-	5	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	RөJA	62.5	°C /W	

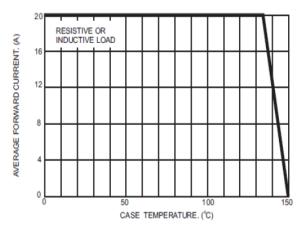
Note:

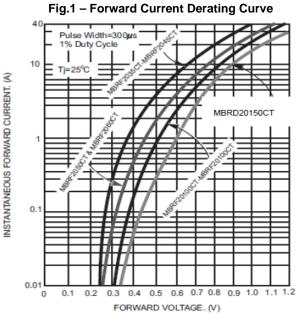
- 1. Pulse test with PW=0.3ms, duty cycle=2%
- 2. Pulse test with PW=30ms

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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)





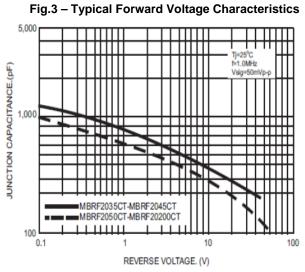
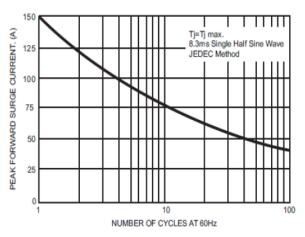


Fig.5 - Typical Junction Capacitance



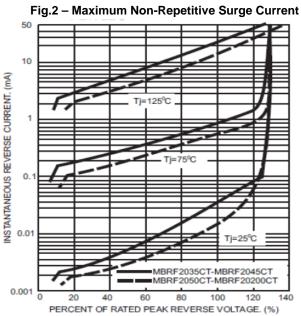
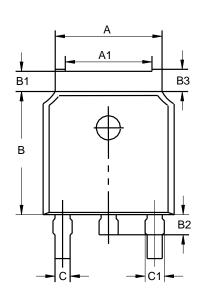


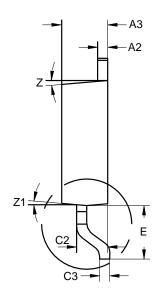
Fig.4 – Typical Reverse Current Characteristics

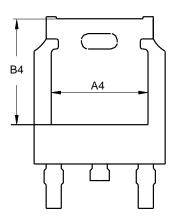


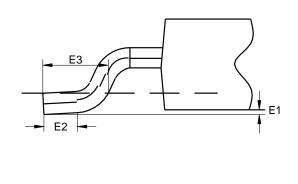
Package Outline Dimensions (Unit: millimeters)

TO-252 (D-PAK)





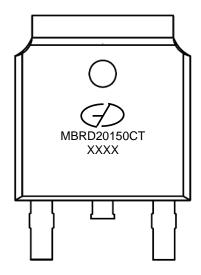




	TO-252						
	Min.	Nom.	Max.		Min.	Nom.	Max.
Α	6.34	6.54	6.74	С	0.66	0.76	0.86
A1	5.2	5.3	5.4	C1	0.75	0.95	1.15
A2	0.4	0.5	0.6	C2	1.34	1.54	1. 74
А3	2.08	2.28	2.48	C3	0.4	0.5	0.6
A4		4.4		Е	2.6	2.9	3.2
В	5.8	6.1	6.4	E1	0		0.15
B1	0.9	1.1	1.3	E2	0.7		
B2	0.8	1	1.2	E3	1.3	1.6	1.9
В3	0.82	1.02	1.22	Z		7°	
В4		5.25		Z1		7°	



Marking Outline



1. Logo Mark:

2. Part Name: MBRD20150CT

3. Data code: XXXX

Revision History

Document Version	Date of release	Description of changes
Rev.A	2013.12.18	Released Datasheet
Rev.B	2021.01.23	Modify document format



MBRD20150CT

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