

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

Applications

- SMPS
- Adapter
- Server Power

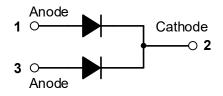
Mechanical Data

- 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	MBRF30200CT	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	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	



ITO-220AB





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	V	
		IF=15A, TJ =125℃	-	0.92		
		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	4.0	°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°C unless otherwise noted)

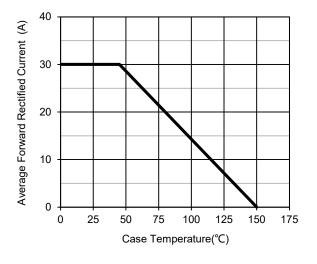


Fig.1 – Forward Current Derating Curve

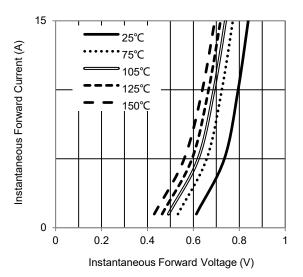


Fig.3 – Typical Forward Voltage Characteristics

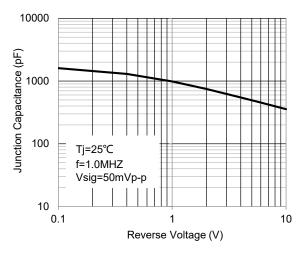


Fig.5 – Typical Junction Capacitance

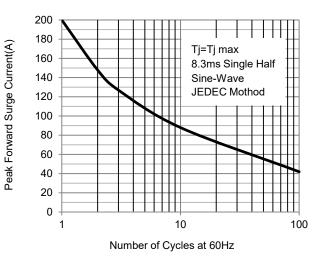


Fig.2 – Maximum Non-Repetitive Surge Current

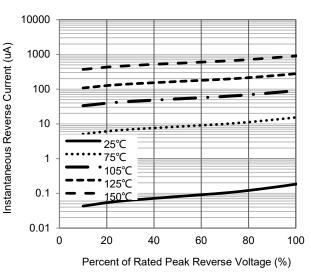
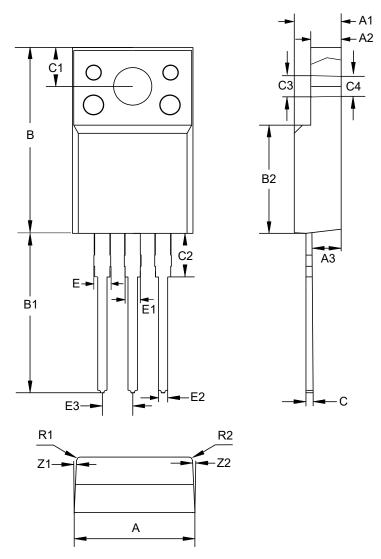


Fig.4 – Typical Reverse Current Characteristics



Package Outline Dimensions (Unit: millimeters)

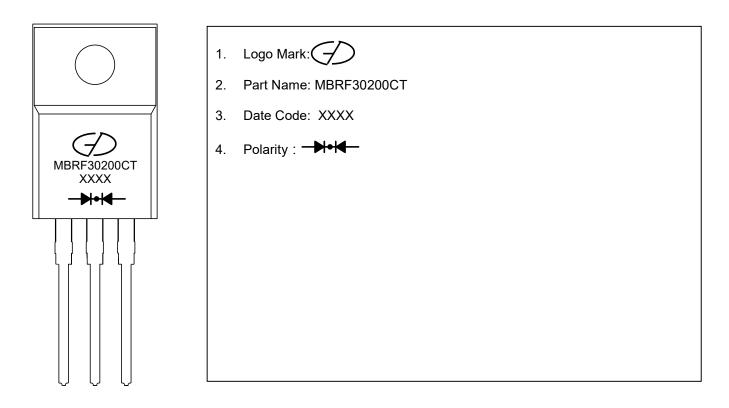
ITO-220AB



	ITO-220AB						
	Min.	Nom.	Max.		Min.	Nom.	Max.
А	9.9	10.1	10.3	C3	3.0	3.2	3.4
A1	4.6	4.7	4.8	C4	3.0		
A2	2.44	2.54	2.64	Е	1.15	1.35	1.55
A3	2.25	2.45	2.65	E1	1.17	1.27	1.37
В	15.5	15.8	16.1	E2	0.7	0.8	0.9
B1	13.25	13.55	13.85	E3	2.44	2.54	2.64
B2	9.0	9.2	9.4	R1		0.3	
С	0.5	0.6	0.7	R2		0.3	
C1	3.1	3.3	3.5	Z1		3°	
C2	3.0	3.3	3.6	Z2		3°	



Marking Outline



Revision History

Document Version	Date of release	Description of changes
Rev.A	2013.12.15	Released Datasheet
Rev.B	2021.01.21	Modify document format
Rev.C	2022.04.29	Modify ratings and characteristics curves



Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd.or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any thirdparty's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page. (http://www.goodark.com)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.