MBRA10200CT

Rev.E Mar.-2016

DATA SHEET

/ Descriptions

WR0595 ṂṂ Ŀ ⸗ g͡ ‖ ᒉ

Schottky Diode in a TO-262 Plastic Package.

/ Features

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Low power loss, high efficiency.

/ Applications

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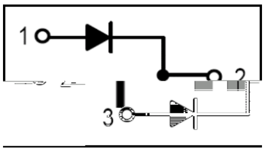
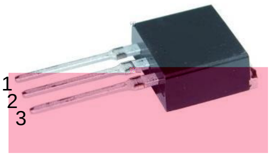
For use in low voltage,high frequency inverters, free wheeling, and polarity protection applications.

/ Equivalent Circuit



/ Pinning



PIN1 χ Anode PIN 2 χ Cathode PIN 3 χ Anode

/ h_{FE} Classifications & Marking

ծ ᴍ ˦ ب ˝ See Marking Instructions.

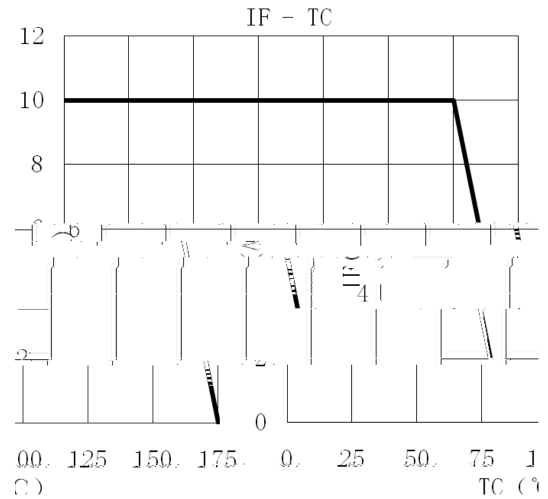
/ Absolute Maximum Ratings(Ta=25)

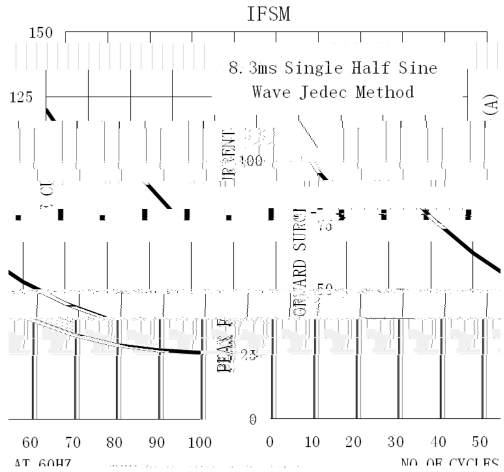
v ῼ Parameter	ʮ ᴺ Symbol	ῼ Ѳ Rating	ᴅ Ꞗ Unit
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
Average Rectified Forward Current	$I_{F(AV)}$	10	A
Peak Repetitive Forward Current	I_{FRM}	10	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Peak Repetitive Reverse Surge Current	I_{RRM}	0.5	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.5	/W
Junction and Storage Temperature Range	$T_j T_{stg}$	-65 150	

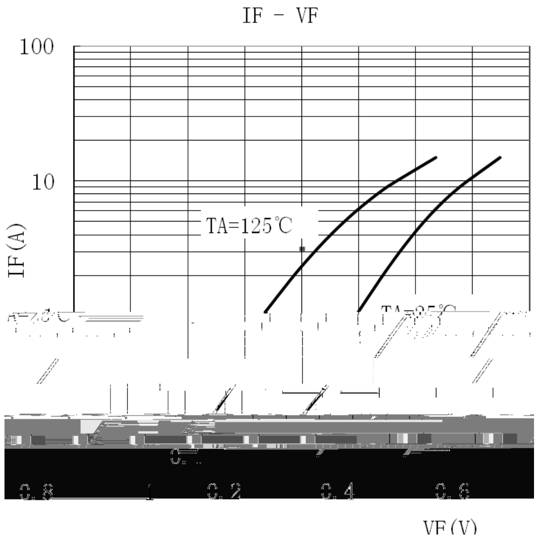
/ Electrical Characteristics(Ta=25)

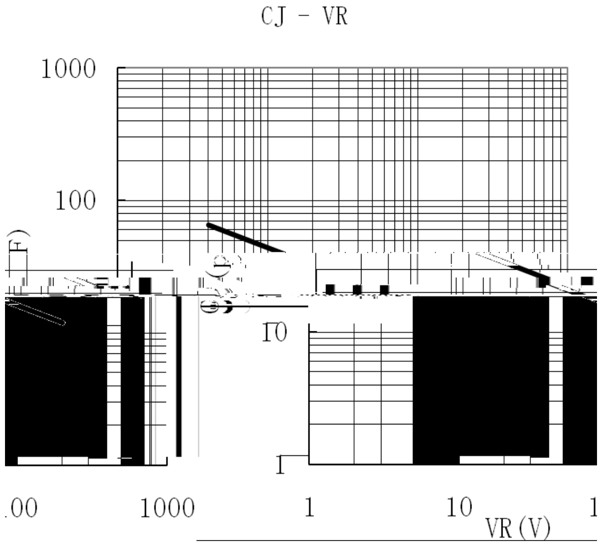
v ῼ Parameter	ʮ ᴺ Symbol	╜ ⁏ᶧ ʈ Test Conditions	ῳ ṇ Ѳ Min	Ɛ ʒ Ѳ Typ	ῳ ᶻ Ѳ Max	ᴅ Ꞗ Unit
Reverse Voltage	V_R		200			V
Forward Voltage	V_{FM}	I_F =5.0A(T_C=25)			0.99	V
		I_F =5.0A(T_C=125)			0.87	V
Instantaneous Reverse Current	I_{RM}	V_R=200V(T_C=25)			0.15	mA
		V_R=200V(T_C=125)			150	mA
Voltage Rate of Change	dv/dt				10000	V/μs

/ Electrical Characteristic Curve









/ Marking Instructions

[redacted]

ب ˝ χ

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P EUD43533 χ	㳠 ƒ ᵝ ʒ ᴺ
FW:	㳠 ŋ ᥰ ɹ ₌
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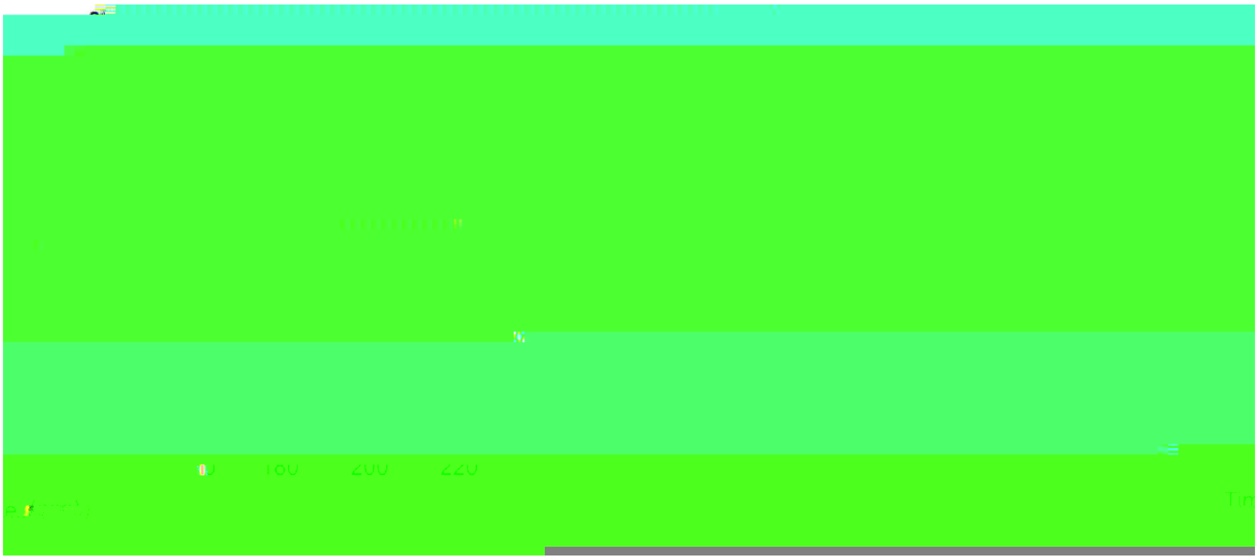
Note:

BR:	Company Code
MBRA10200 χ	Product Type.
CT:	Internal Structure
****:	Lot No. Code, code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)



ب ˝ χ	Note:
1 ΐ ♬ □ ỷ 25 Ḱ 150 ł ı ˋH ڔ 60 Ḱ 90sec;	1.Preheating:25~150 ł , Time:60~90sec.
2 Š Ӫ □ ỷ 255 ° 5 ł ı ˋH ڔ ˋY ﾊ 㻈 5 ° 0.5sec;	2.Peak Temp.:255 ° 5 ł , Duration:5 ° 0.5sec.
3 ì ˙ ﾄ ˛ ɔ ǝ ỷ 㻈 2 Ḱ 10 ł /sec.	3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 270 ° 5 ł ˋH ڔ χ 10 ° 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

ˬ ˥ ɣ ៤ / TUBE

Package Type	Units					Dimension (unit mm^3)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box

/ Notices