MBRA10200CT

Rev.E Mar.-2016

DATA SHEET

/ Descriptions

WR0595 ṂṂ Ŀ ≠ g⁀ ‖ ˥

Schottky Diode in a TO-262 Plastic Package.

/ Features

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Low power loss, high efficiency.

/ Applications

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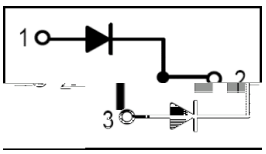
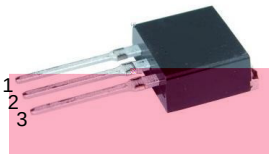
For use in low voltage,high frequency inverters, free wheeling, and polarity protection applications.

/ Equivalent Circuit



/ Pinning



PIN1 χ Anode PIN 2 χ Cathode PIN 3 χ Anode

/ h_{FE} Classifications & Marking

ð ᴍ ˥ ب ˝ See Marking Instructions.

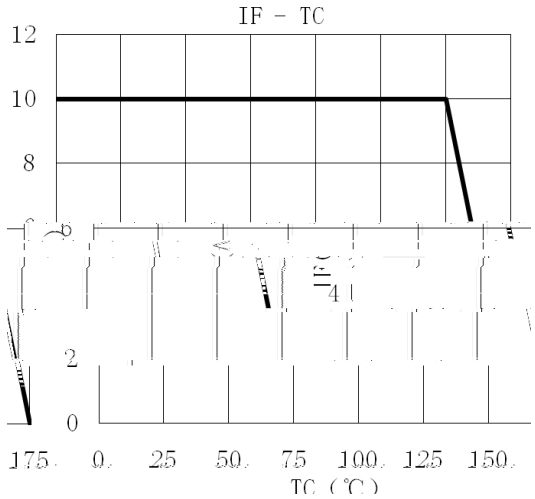
/ Absolute Maximum Ratings(Ta=25)

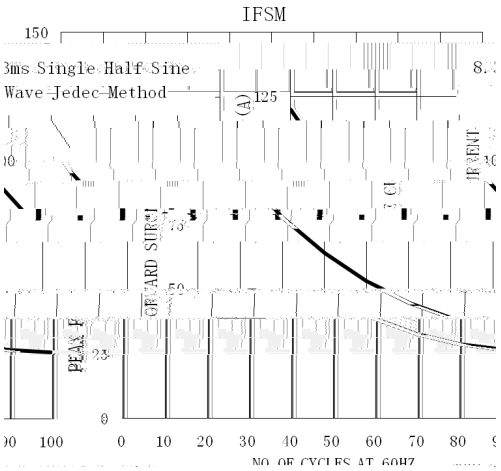
v ̈Ω̣ Parameter	ɬ N Symbol	̈Ω̣Ö Rating	D Ɉ Unit
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
Average Rectified Forward Current	$I_{F(AV)}$	10	A
Peak Repetitive Forward Current	I_{FRM}	10	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Peak Repetitive Reverse Surge Current	I_{RRM}	0.5	A
Thermal Resistance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

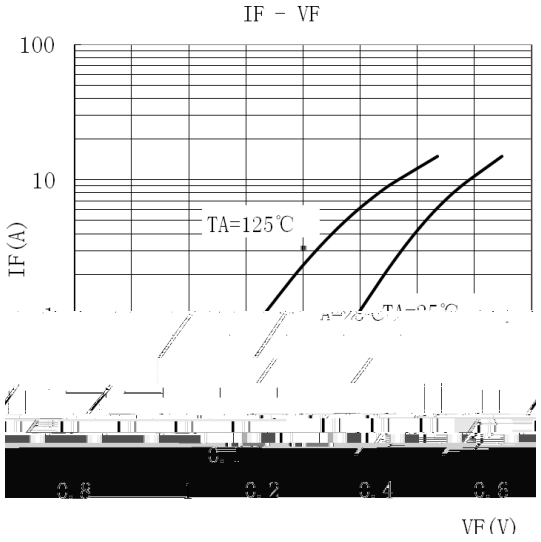
/ Electrical Characteristics(Ta=25)

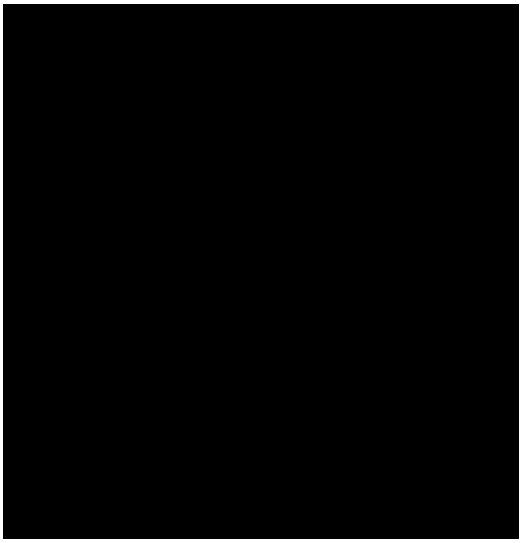
v ̈Ω̣ Parameter	ɬ N Symbol	⊥⊥ ;ǂ Ţ Test Conditions	ω̣ ṇ Ö Min	Ɛ ʒ Ö Typ	ω̣ ʑ Ö Max	D Ɉ Unit
Reverse Voltage	V_R		200			V
Forward Voltage	V_{FM}	I_F =5.0A(T_C=25)			0.99	V
		I_F =5.0A(T_C=125)			0.87	V
Instantaneous Reverse Current	I_{RM}	V_R=200V(T_C=25)			0.15	mA
		V_R=200V(T_C=125)			150	mA
Voltage Rate of Change	dv/dt				10000	V/ s

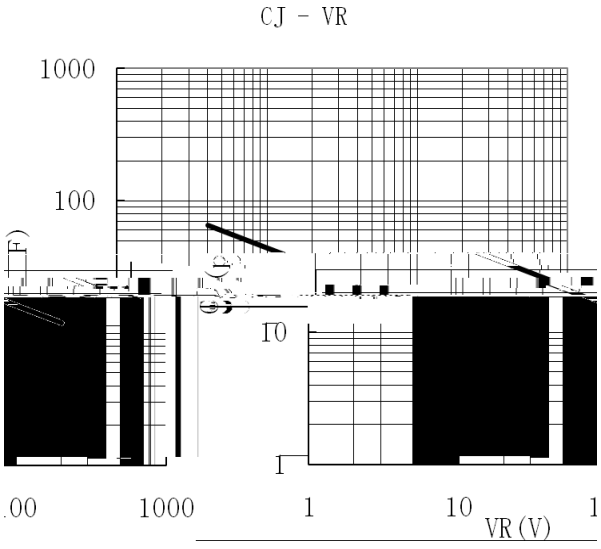
/ Electrical Characteristic Curve



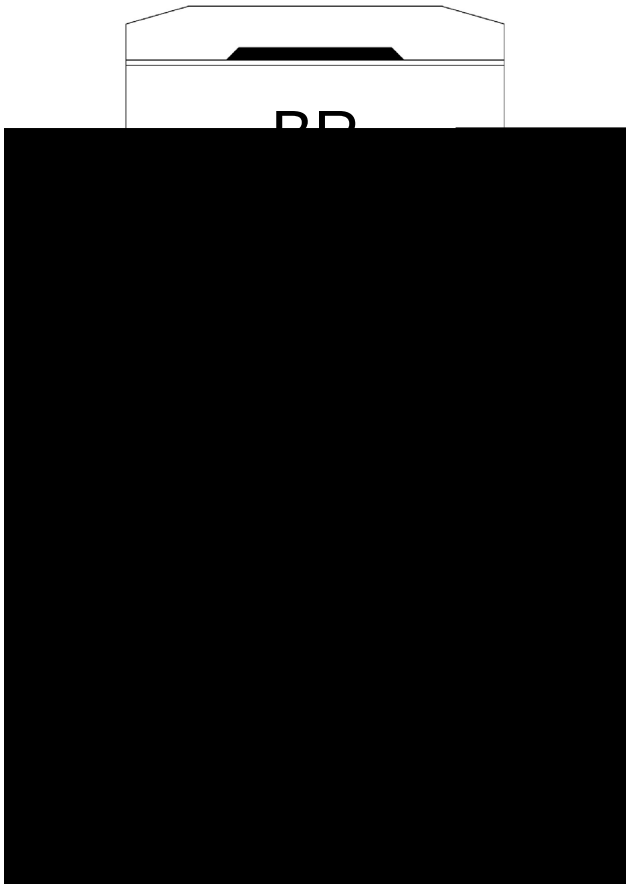








/ Marking Instructions



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P EUD43533 χ	ѭ ғ β ʒ N
FW=	ѭ ŋ ѡ ˩ ‗
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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

1 ǂ ♬ □ ỷ 25 Ḱ 150 ɫ ı `H ڑ 60 Ḱ 90sec;

2 Š Ö □ ỷ 255 ° 5 ɫ ı `H ڑ ˋY ⺈ ⺾ 5 ° 0.5sec;

3 ì ˙ ⺈ ˛ ɔ ھ ỷ ⺾ 2 Ḱ 10 ɫ /sec.

Note:

1.Preheating:25~150 ɫ , Time:60~90sec.

2.Peak Temp.:255 ° 5 ɫ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɫ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 270 ° 5 ɫ `H ڑ χ 10 ° 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

˘ ˥ ˥ ⺊ / TUBE

Package Type	Units					Dimension (unit mm^3)		

/ Notices