WR0553 ṂṂ Ŀ ≠ ɡ⁀ ‖ ˥

Schottky Barrier Diode in a TO-220 Plastic Package.

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Low power loss, high efficiency.

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



PIN1 χ Anode PIN 2 χ Cathode PIN 3 χ Anode

/ h_{FE} Classifications & Marking

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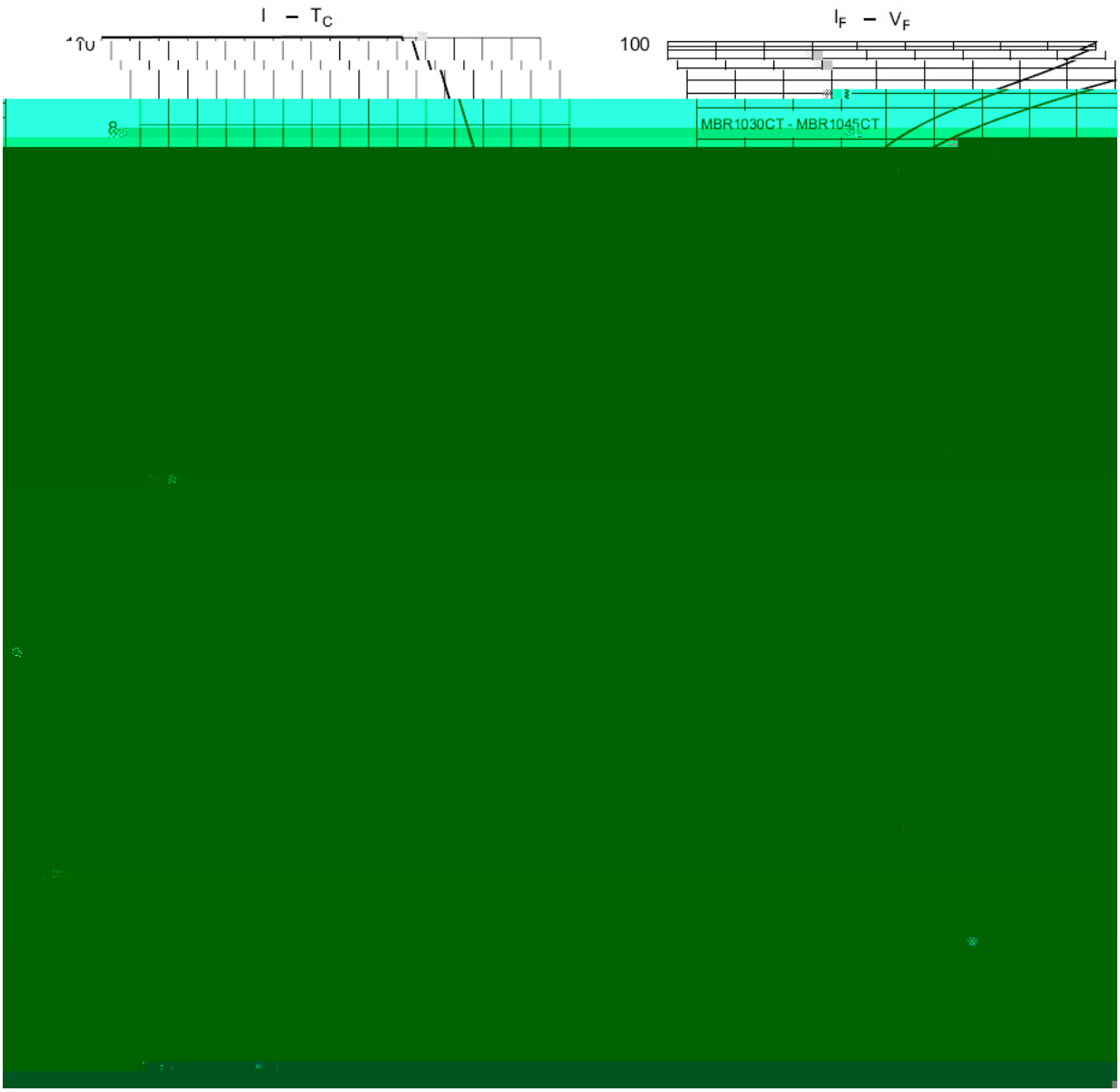
/ Absolute Maximum Ratings(Ta=25

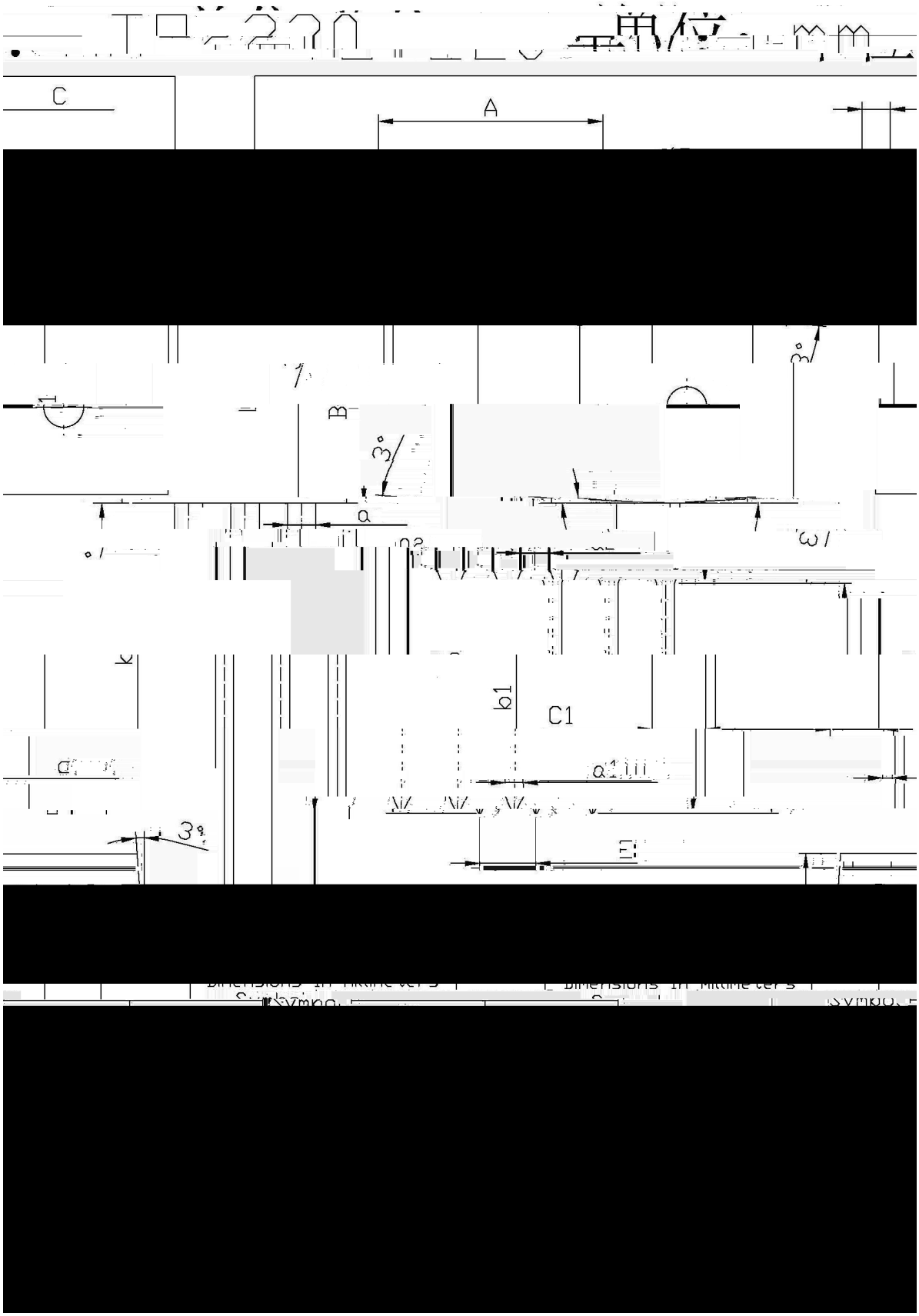
v ̈Ω̣ Parameter	ɬ N Symbol	̈Ω̣Ö Rating	D Ɉ Unit
Peak Repetitive Reverse Voltage	V_{RRM}	45	V
Instantaneous Reverse Voltage	V_R	31.5	V
Average Rectified Output Current	I_O	10	A
Non Repetitive Peak Surge Current	I_{FSM}	125	A
Repetitive Peak Reverse Current	I_{RRM}	1.0	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	30	K/W
Storage 6Anperature Range	T_{STG}	-65 150	

v ̈Ω̣ Parameter	ɬ N Symbol	⊥⊥ ;ɬ ʈ Test Conditions	ω̣ ṇ Ö Min	Ɛ ʒ Ö Typ	ω̣ ʑ Ö Max	D Ɉ Unit
Forward Voltage	V_F	I_F=5A(T_J=125)			0.57	V
		I_F=5A(T_J=25)			0.70	V
		I_F=10A(T_J=25)			0.84	V
Instantaneous Reverse Current	I_{RM}	T_C=25			0.1	mA
		T_C=125			15	mA
Junction Capacitance	C_j				150	pF
Voltage Rate of Change	dv/dt				1000	V/μs

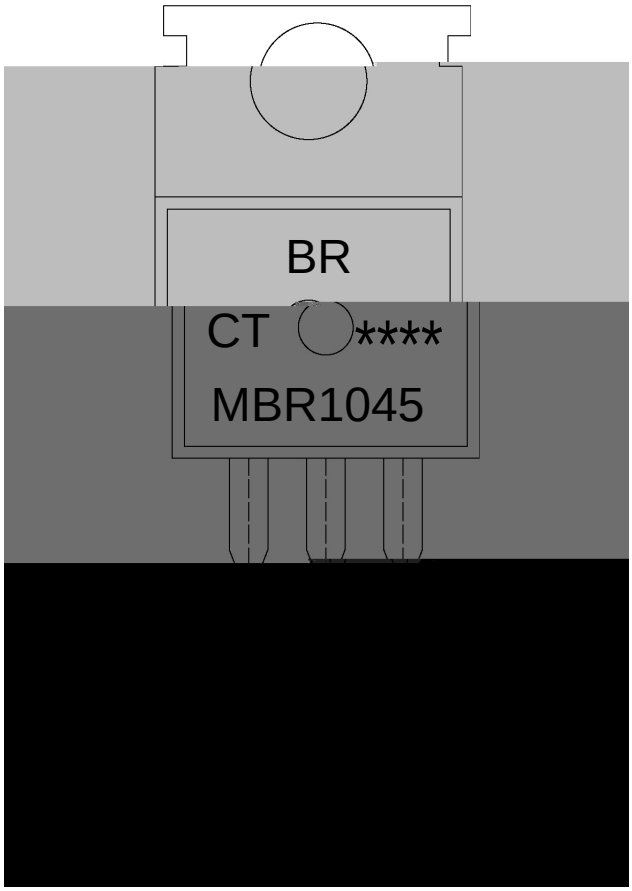
/ Electrical Characteristic Curve



/ Package Dimensions

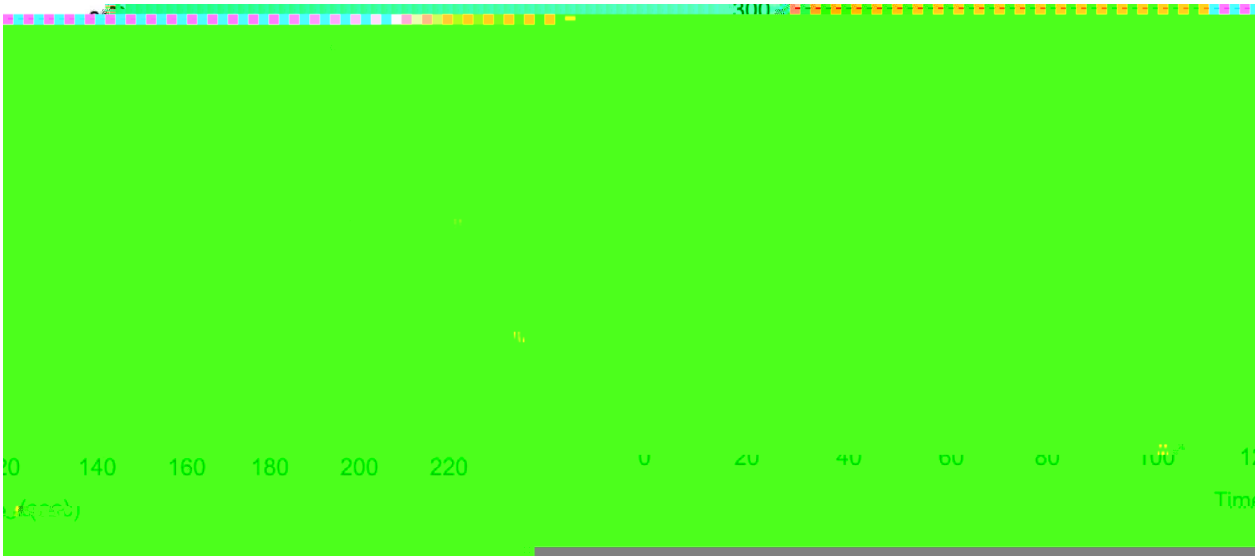


/ Marking Instructions



ب ˝ χ	
EU χ	ѭ ʒ ᴵ ᴵ
P EU4378 χ	ѭ ɾ ᵝ ʒ ᴺ
FW=	ѭ ɲ ɯ ɹ ⸗
---- χ	ѭ ɨ ɾ ŋ̈ ᴺ ᴵ ɐ ɨ ɾ ŋ̈ ᴺ ᴹ ᴾ
Note:	
BR:	Company Code
MBR1045 χ	Product Type.
CT:	Internal Structure
****:	Lot No. Code, code change with Lot No.

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



ب ˝ χ

1 ƚ ♬ □ ỷ 25 Ḱ 150 ɫ ı ̀H ɟ 60 Ḱ 90sec;

2 Š Ö □ ỷ 255 ° 5 ɫ ı ̀H ɟ ̀Y ⺈ ⺮ 5 ° 0.5sec;

3 ì ̇ ⺈ ˛ ɔ ھ ỷ ⺮ 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 ɟ χ 10 ° 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

̈Ω ţ ɣ ŁŁ / BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱