

WR0553 M M E $\approx g^{\sim}$ || 1

Schottky Barrier Diode in a TO-220 Plastic Package.

$$\Omega \tilde{\alpha} H, \tilde{\omega} \cdot \alpha$$

Low power loss, high efficiency.

[illegible]

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

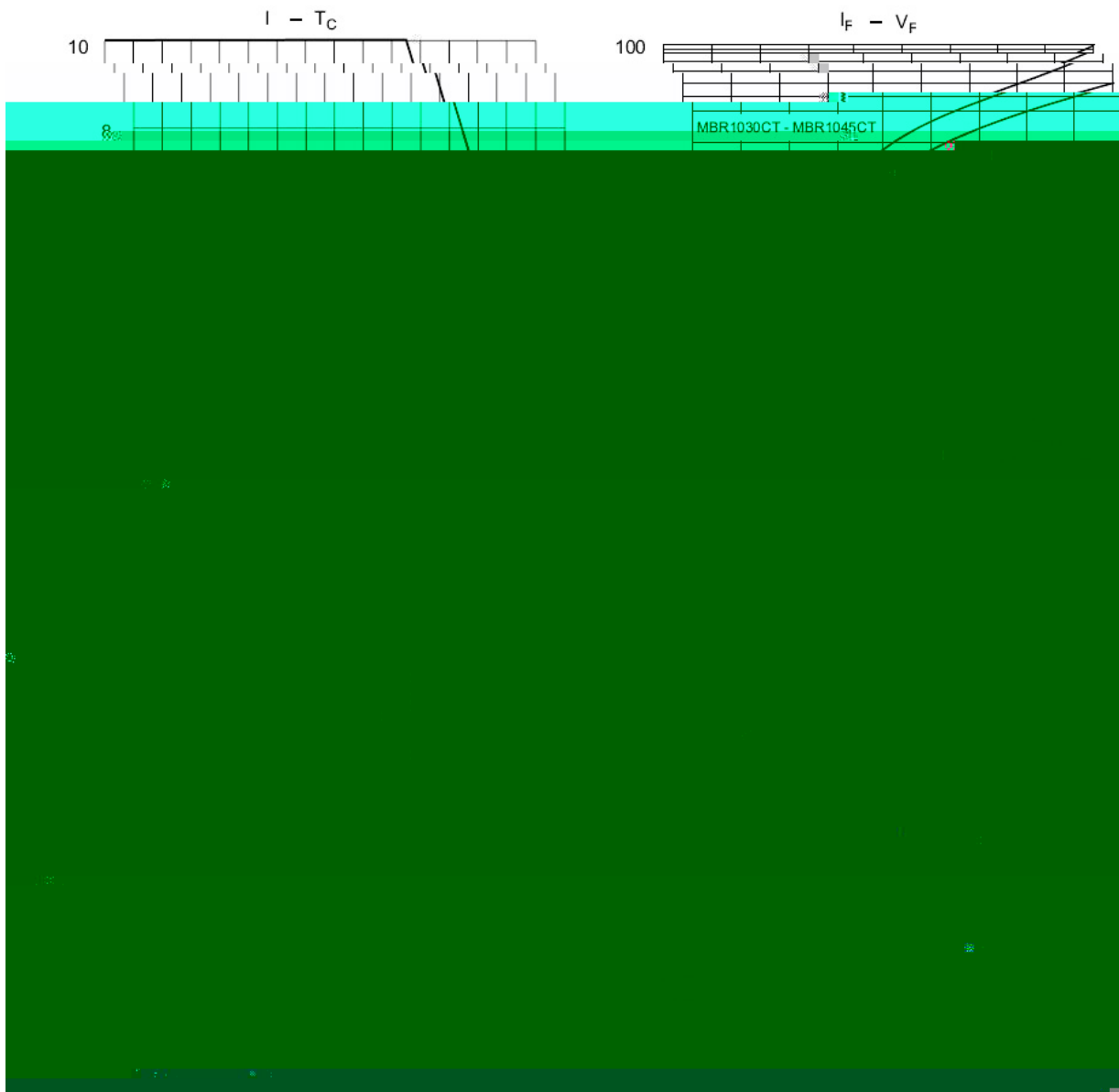
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/ Absolute Maximum Ratings(Ta=25

Parameter	Symbol	Rating	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 Temperature Range	T_{STG}	-65 ~ 150	

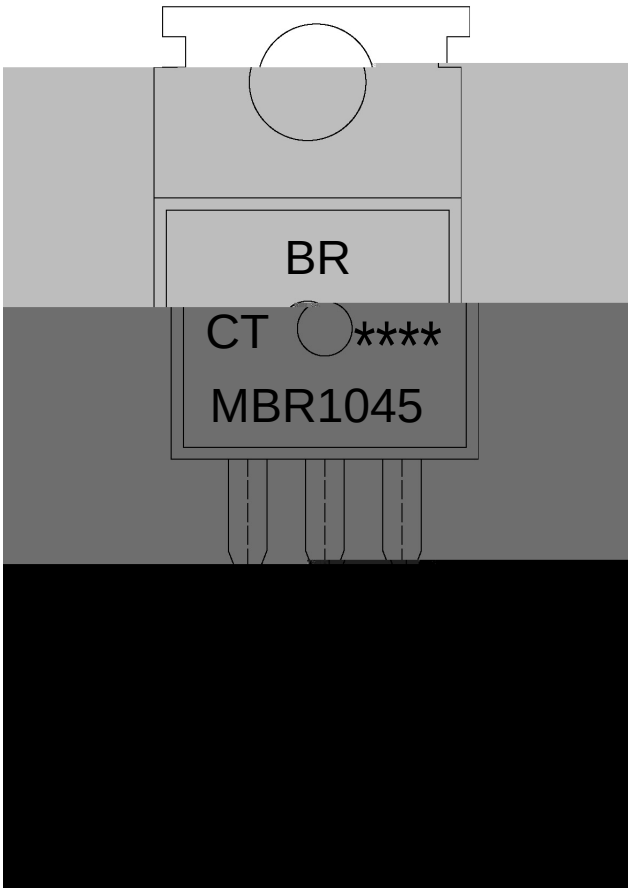
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=5A(T_J=125^\circ C)$			0.57	V
		$I_F=5A(T_J=25^\circ C)$			0.70	V
		$I_F=10A(T_J=25^\circ C)$			0.84	V
Instantaneous Reverse Current	I_{RM}	$T_C=25$			0.1	mA
		$T_C=125$			15	mA
Junction Capacitance	C_j				150	pF
Voltage Rate of Change	dv/dt				1000	V/ μs

/ Electrical Characteristic Curve



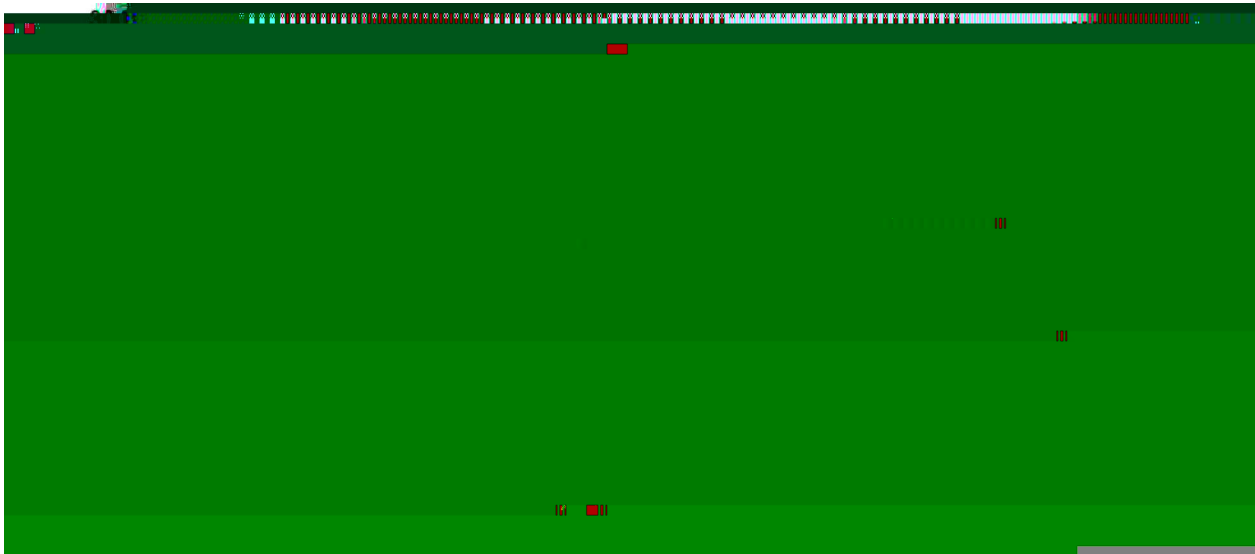
Technical drawing of a mechanical part, likely a shaft or axle, showing a cross-section and a side view. The drawing includes dimensions A, B, C, and D, and a scale of 1:1. The part has a central section with a diameter of 30mm and a length of 100mm. The side view shows a flange with a diameter of 50mm and a thickness of 10mm. The drawing is labeled 'Fig. 1' and 'Fig. 2'.

/ Marking Instructions



ب " χ	
EU χ	ħ ٤ ١ Γϭ
PEU4378 χ	ħ ٢ β ٣ N
FW:	ħ ٧ ٧ħ J =
---- χ	ħ ١ ٢ ĩ N Γϭ ١ ٢ ١ ٢ ĩ N ψ ρ
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)



б " χ

- 1. 1. Preheating: 25~150 °C, Time: 60~90sec;
- 2. 2. Peak Temp.: 255 °C, Duration: 5 °C 0.5sec;
- 3. 3. Cooling Speed: 2~10 °C /sec.

- Note:
- 1. Preheating: 25~150 °C, Time: 60~90sec.
 - 2. Peak Temp.: 255 °C, Duration: 5 °C 0.5sec.
 - 3. Cooling Speed: 2~10 °C /sec.

/ Resistance to Soldering Heat Test Conditions

□ ° χ 270 ° 5 °C °C 10 ° 1 sec. Temp.: 270±5 Time: 10±1 sec

/ Packaging SPEC.

“Q T Y E / 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