

MBR10100CT

Rev.H Oct.-2018

/ Descriptions

TO-220

Schottky Barrier Diode in a TO-220 Plastic Package.

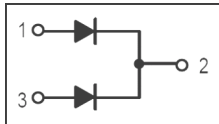
/ Features

Low power loss, high efficiency.

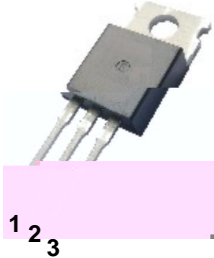
/ Applications

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

/ Equivalent Circuit



/ Pinning



PIN1 Anode PIN 2 Cathode PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions.

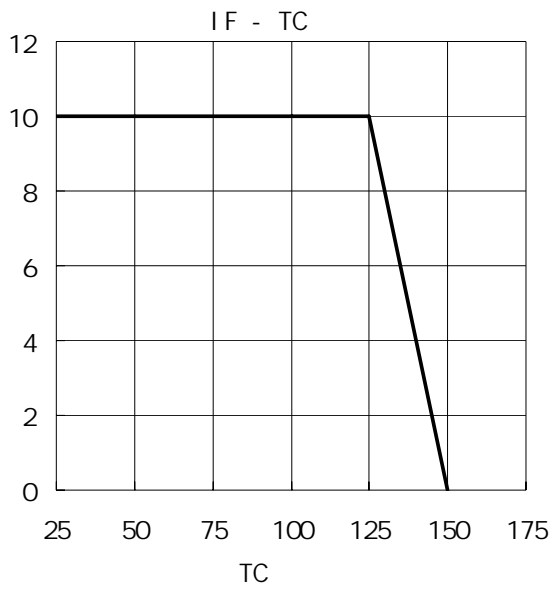
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Rev.H Oct.-2018

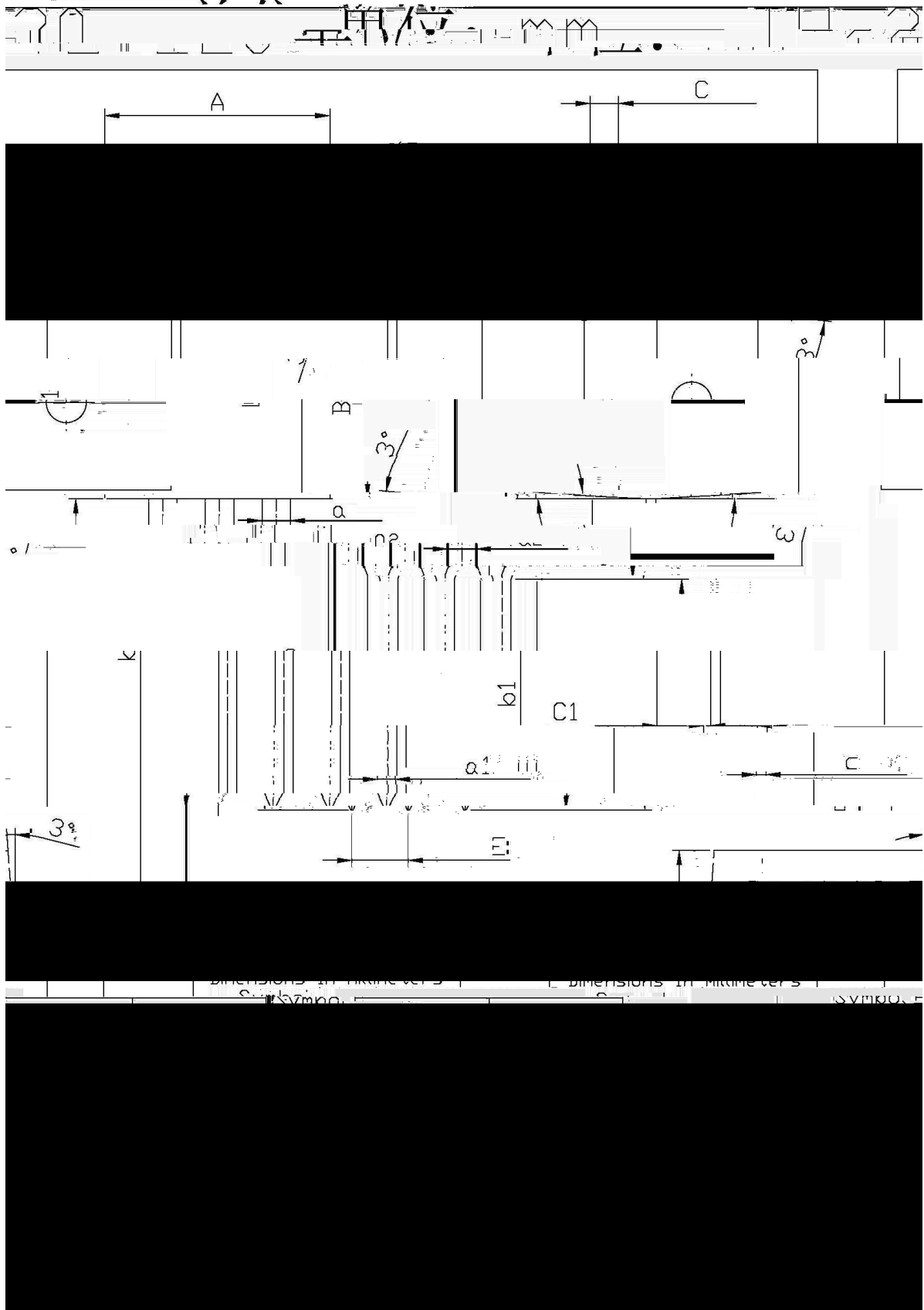
| Parameter | Symbol | Rating | Unit |
|---|------------------------------------|---------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage Peak Reverse Voltage | V_{RRM} V_{RWM} V_{RM} | 100 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 70 | V |
| Peak Repetitive Forward Current | $I_{F(AV)}$ | 2× 5 | A |
| Non-Repetitive Peak Forward Surge Current | I_{FSM} | 125 | A |
| Thermal Resistance Junction to Case | R_{Jc} | 2.5 | /W |
| Junction Temperature Range | T_{jMAX} | 150 | |
| Storage Temperature Range | T_{stg} | -55 150 | |

HW B15R102
HWH B15R102

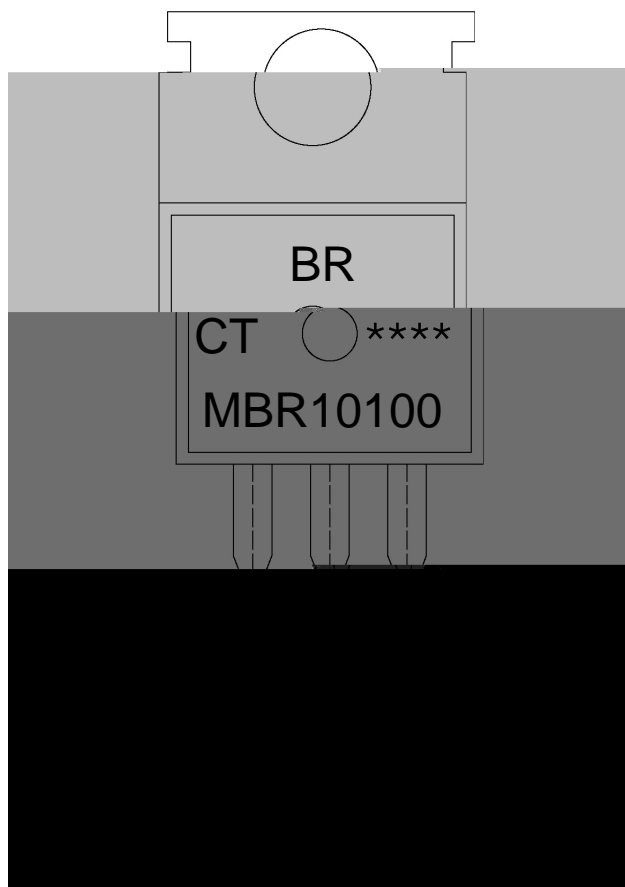
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

MBR10100

CT:

Note:

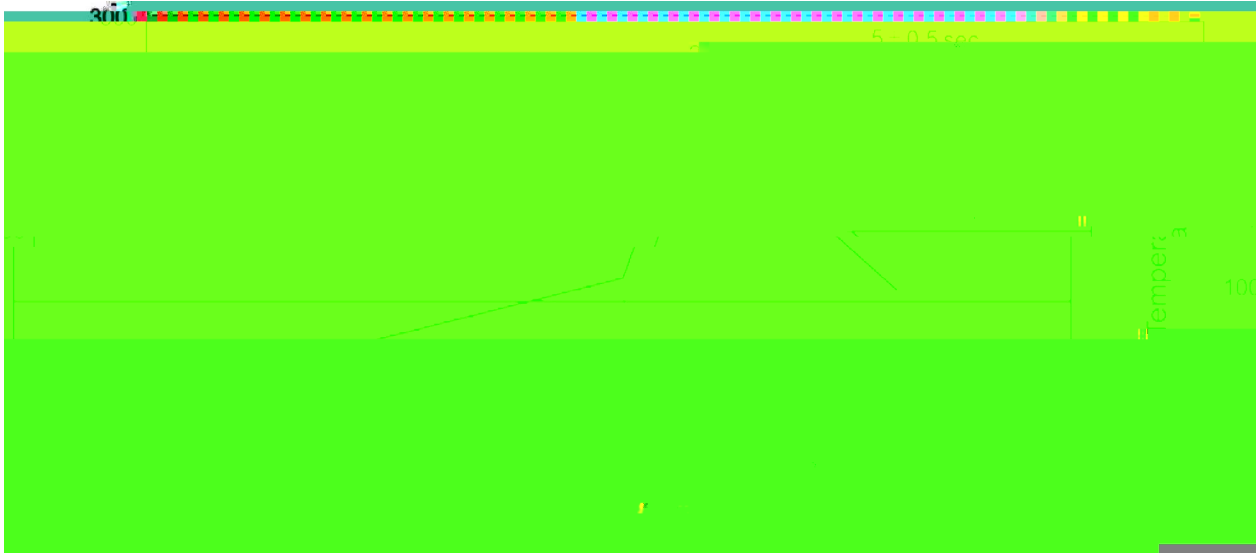
BR: Company Code

MBR10100 Product Type.

CT: Internal Structure

****: Lot No. Code, code change with Lot No.

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



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

/ Resistance to Soldering Heat Test Conditions

270±5 10±1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

| Package Type | Units | | | | | Dimension (unit mm ³) | | |
|--------------|-----------|----------------|-----------------|-----------------------|-----------------|-----------------------------------|-----------|-----------|
| | Units/Bag | Bags/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Bag | Inner Box | Outer Box |
| TO-220/F | 200 | 10 | 2,000 | 5 | 10,000 | | | |