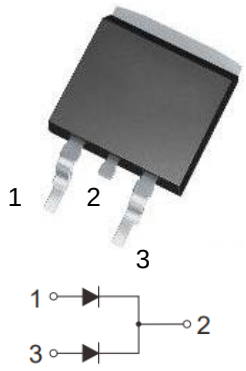
# WSR20030M

## SCHOTTKY BARRIER RECTIFIER

## Features




- 30A Schottky barrier diode
- Schottky barrier rectifier
- Excellent high temperature stability
- Low forward voltage
- High forward surge capability
- High current capability

## Mechanical Data

- Case: TO-263 molded plastic package

## Maximum Ratings (Ta=25℃ Unless otherwise specified)

| PARAMETER | SYMBOL | WSR20030M | UNIT |
|---|---|---|---|
| Repetitive Peak Reverse Voltage | $V_{RRM}$ | 200 | V |
| Average rectified output current | $I_O$ | 15(per leg) | A |
| | | 30(total device) | |
| Non-Repetitive peak forward surge current (8.3ms half sine wave) | $I_{FSM}$ | 200 | A |
| Thermal resistance from junction to case ,Tc=25℃ | $R_{\theta J-C}$ | 2 | ℃/W |
| Storage Temperature | $T_{stg}$ | -55 ~+150 | ℃ |
| Junction Temperature | $T_j$ | -55 ~+150 | ℃ |

## Electrical Characteristics(Ta=25℃ Unless otherwise specified)

| PARAMETER | SYMBOL | TEST CONDITIONS | WSR20030M | | UNIT |
|---|---|---|---|---|---|
| | | | Typ | Max | |
| Forward voltage | $V_F$ | $I_F$ =15A(per leg) | 0.9 | 0.95 | V |
| Leakage Current | $I_R$ | $V_R=V_{RRM}$, Tj=25℃ | / | 0.1 | mA |
| | | $V_R=V_{RRM}$, Tj=125℃ | 5 | / | |

## Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

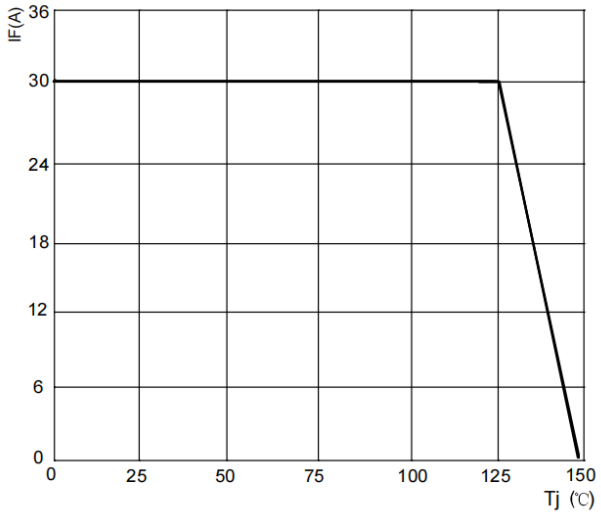



FIG.2: TYPICAL FORWARD CHARACTERISTICS

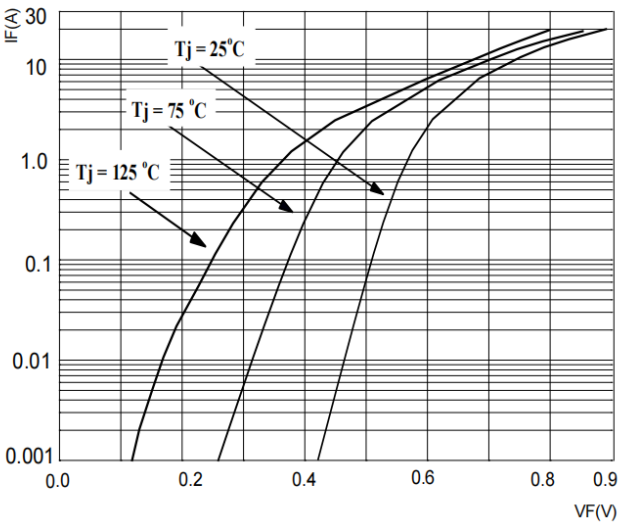
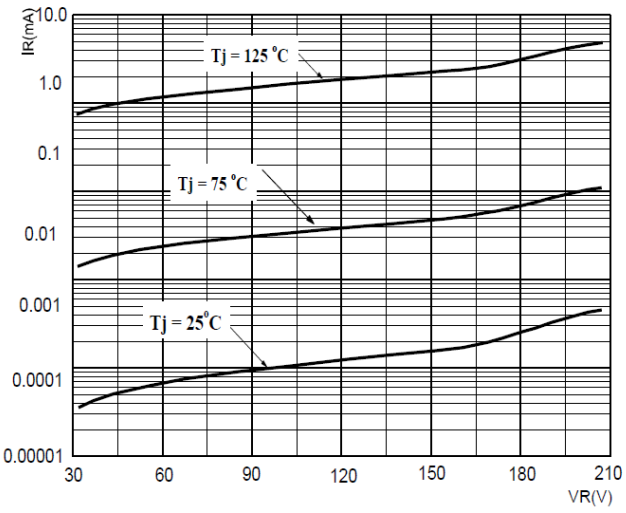
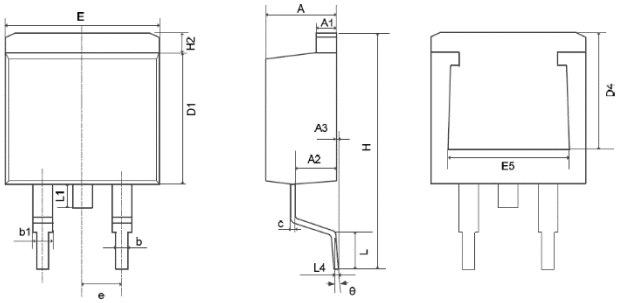



FIG.3: TYPICAL REVERSE CHARACTERISTICS




Note: The above typical parameters or typical characteristics are only indicative and do not make specific guarantees. If detailed values are required, additional communication and provision are required.

## Outline Dimensions




COMMON DIMENSIONS

| SYMBOL | MM | |
|---|---|---|
| | MIN | MAX |
| A | 4.37 | 4.89 |
| A1 | 1.17 | 1.42 |
| A2 | 2.49 | 2.89 |
| b | 0.70 | 0.96 |
| b1 | 1.17 | 1.47 |
| c | 0.30 | 0.53 |
| D1 | 8.45 | 8.90 |
| D4 | 6.60 | — |
| E | 9.86 | 10.40 |
| E5 | 7.06 | — |
| e | 2.54BSC | |
| H | 14.70 | 15.50 |
| H2 | 1.07 | 1.47 |
| L | 2.00 | 2.70 |
| L1 | 1.40 | 1.70 |
| L4 | 0.25BSC | |
| θ | 0° | 9° |

## Marking Code

| Part Number | **WSR20030M** |
|---|---|
| Marking Code | MBR30200M |

## Package Information

800pcs/Reel

## Contact Information

No.1001, Shiwan(7) Road, Pudong District, Shanghai, P.R.China.201207
Tel: 86-21-50310888 Fax: 86-21-50757680 Email: market@way-on.com
WAYON website: **http://www.way-on.com**
For additional information, please contact your local Sales Representative.

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# Product Specification Statement

The product specification aims to provide users with a reference regarding various product parameters, performance, and usage. It presents certain aspects of the product's performance in graphical form and is intended solely for users to select product and make product comparisons, enabling users to better understand and evaluate the characteristics and advantages of the product. It does not constitute any commitment, warranty, or guarantee.

The product parameters described in the product specification are numerical values, characteristics, and functions obtained through actual testing or theoretical calculations of the product in an independent or ideal state. Due to the complexity of product applications and variations in test conditions and equipment, there may be slight fluctuations in parameter test values. WAYON shall not guarantee that the actual performance of the product when installed in the customer's system or equipment will be entirely consistent with the product specification, especially concerning dynamic parameters. It is recommended that users consult with professionals for product selection and system design. Users should also thoroughly validate and assess whether the actual parameters and performance when installed in their respective systems or equipment meet their requirements or expectations. Additionally, users should exercise caution in verifying product compatibility issues, and WAYON assumes no responsibility for the application of the product.

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