



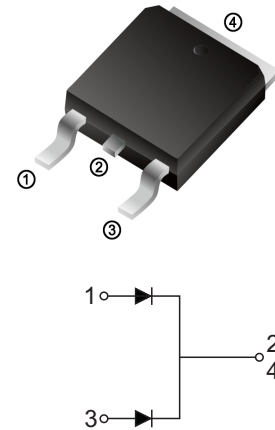
# MBR30100DT THRU MBR30200DT

## Surface Mount Schottky Rectifiers

### TO-252(D-PAK)

#### FEATURES

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed
- Mounting position: any



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| CHARACTERISTICS   | TO-252            | MBR30100DT  | MBR30150DT | MBR30200DT | UNIT |
|---|-------------------|-------------|------------|------------|------|
| Maximum Recurrent Peak Reverse Voltage  | V <sub>RRM</sub>  | 100         | 150        | 200        | V    |
| Maximum RMS Voltage   | V <sub>RMS</sub>  | 70          | 105        | 140        | V    |
| Maximum DC Blocking Voltage   | V <sub>DC</sub>   | 100         | 150        | 200        | V    |
| Maximum Average Forward Rectified Current   | I <sub>(AV)</sub> | 30.0        |            |            | A    |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load (JEDEC Method) | I <sub>FSM</sub>  | 150         |            |            | A    |
| Maximum Forward Voltage at 15.0A DC per leg   | V <sub>F</sub>    | 0.85        | 0.90       | 0.92       | V    |
| Maximum DC Reverse Current<br>at Rated DC Blocking Voltage  | I <sub>R</sub>    | 0.1<br>20   |            |            | mA   |
| Operating Temperature Range   | T <sub>J</sub>    | -55 to +150 |            |            | °C   |
| Storage Temperature Range   | T <sub>STG</sub>  | -55 to +150 |            |            | °C   |



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### Characteristic Curves ( $T_A=25^\circ\text{C}$ unless otherwise noted)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

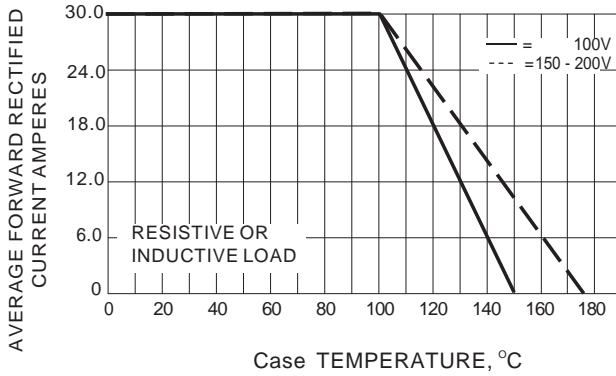


FIG.2-TYPICAL FORWARD CHARACTERISTICS

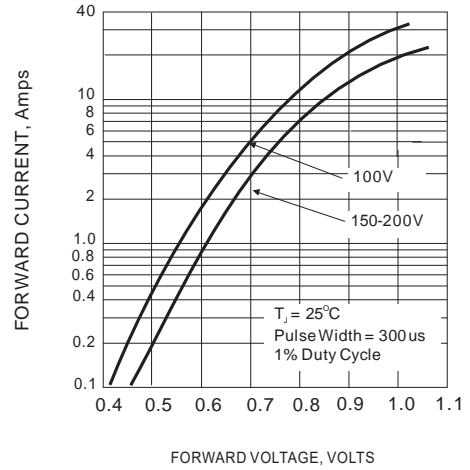


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

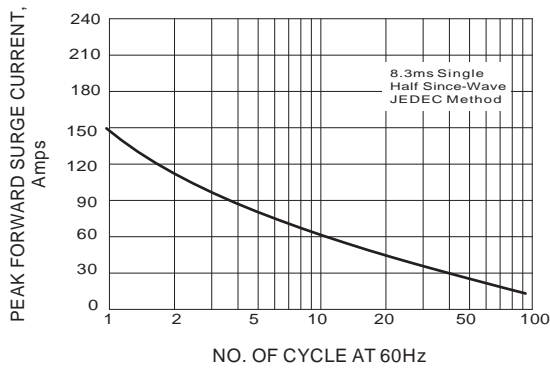
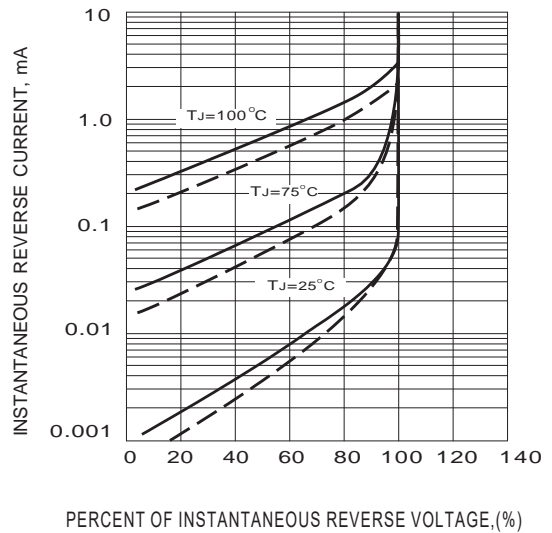


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

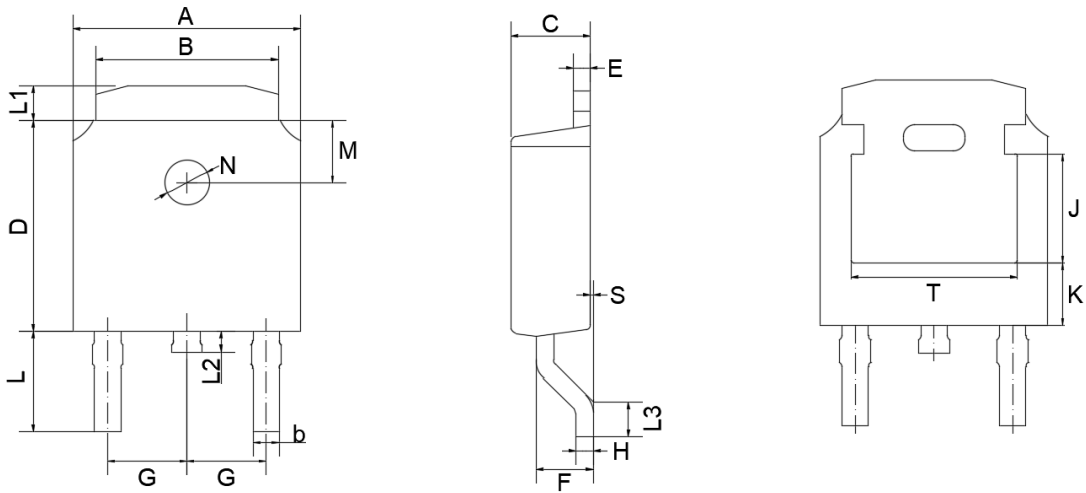




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## Surface Mount Schottky Rectifiers

### TO-252(D-PAK) Package Outline Dimensions



### TO-252(D-PAK) mechanical data

| UNIT |     | A   | B   | b    | C   | D   | E   | F   | G               | H    | L   | L1  | L2  | L3   | S   | M              | N              | J            | K            | T            |
|------|-----|-----|-----|------|-----|-----|-----|-----|-----------------|------|-----|-----|-----|------|-----|----------------|----------------|--------------|--------------|--------------|
| mm   | max | 6.7 | 5.5 | 0.86 | 2.5 | 6.3 | 0.6 | 1.8 | 2.29<br>TYPICAL | 0.55 | 3.1 | 1.2 | 1.0 | 1.75 | 0.1 | 1.8<br>TYPICAL | 1.3<br>TYPICAL | 3.16<br>ref. | 1.80<br>ref. | 4.83<br>ref. |
|      | min | 6.3 | 5.1 | 0.66 | 2.1 | 5.9 | 0.4 | 1.3 |                 | 0.45 | 2.7 | 0.8 | 0.6 | 1.40 | 0.0 |                |                |              |              |              |
| mil  | max | 264 | 217 | 33   | 98  | 248 | 24  | 71  | 90<br>TYPICAL   | 22   | 122 | 47  | 39  | 69   | 4   | 71<br>TYPICAL  | 51<br>TYPICAL  | 124<br>ref.  | 71<br>ref.   | 190<br>ref.  |
|      | min | 248 | 201 | 26   | 83  | 232 | 16  | 51  |                 | 18   | 106 | 31  | 24  | 55   | 0   |                |                |              |              |              |

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