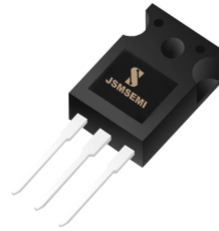
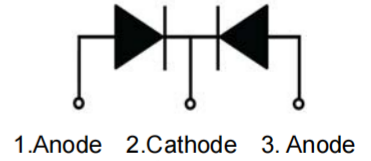


## Features:

- ◆ High Surge Capability.
- ◆ Low Forward Voltage Drop.
- ◆ High Current Capability.
- ◆ Super Fast Switching Speed For High Efficiency.



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## Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

| Parameter                                                                                         | Symbol | MUR3020WTG     | Unit |
|---------------------------------------------------------------------------------------------------|--------|----------------|------|
| Maximum Recurrent Peak Reverse Voltage                                                            | VRRM   | 200            | V    |
| Maximum RMS Voltage                                                                               | VRMS   | 140            |      |
| Maximum DC Blocking Voltage                                                                       | VR(DC) | 200            |      |
| Maximum Average Forward Current                                                                   | IF(AV) | 30             | A    |
| Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM   | 250            |      |
| Maximum Forward Voltage at 15A per leg                                                            | VF     | 0.9            | V    |
| Maximum DC Reverse Current at Rated DC Blocking Voltage                                           | IR     | Tj=25°C<br>0.2 | mA   |
|                                                                                                   |        | Tj=125°C<br>5  |      |
| Maximum Operating Junction Temperature                                                            | Tj     | 150            | °C   |
| Storage Temperature                                                                               | Tstg   | -35 ~ +150     |      |
| Typical Thermal Resistance                                                                        | RθJC   | 1.5            | °C/W |

## Typical Characteristics

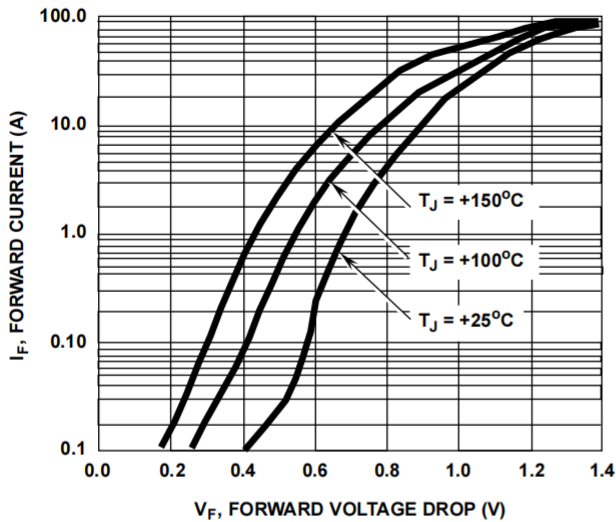


FIGURE 3. FORWARD VOLTAGE vs FORWARD CURRENT CHARACTERISTIC

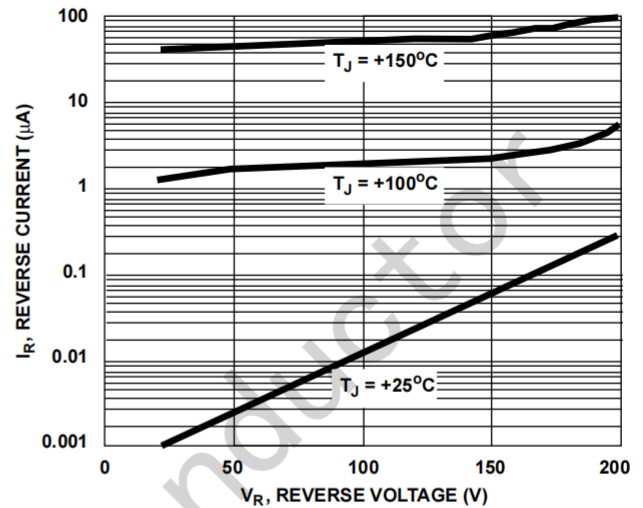


FIGURE 4. REVERSE VOLTAGE vs REVERSE CURRENT CHARACTERISTIC

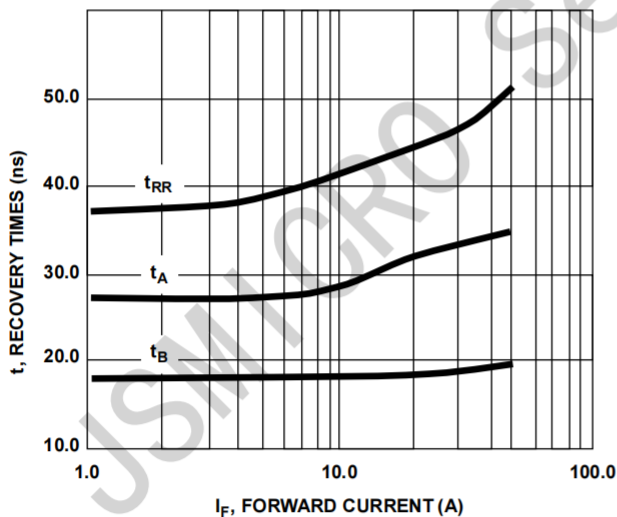


FIGURE 5. TYPICAL  $t_{RR}$ ,  $t_A$  AND  $t_B$  CURVES vs FORWARD CURRENT

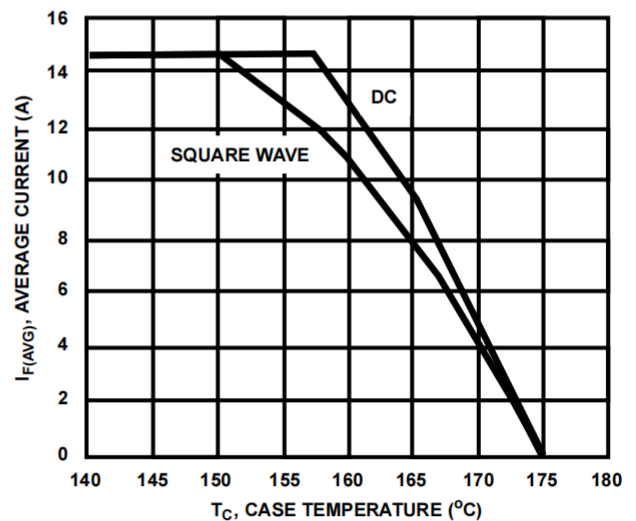


FIGURE 6. TYPICAL CURRENT DERATING CURVE vs CASE TEMPERATURE

Package Dimension

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Units: mm

