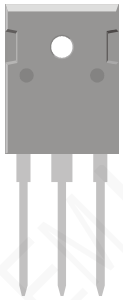
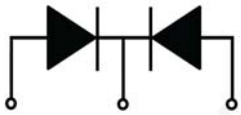
## Features:

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



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1.Anode 2.Cathode 3. Anode

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

| Parameter | | Symbol | MUR3020PTG | MUR3040PTG | MUR3060PTG | Unit |
|---|---|---|---|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | | $V_{RRM}$ | 200 | 400 | 600 | V |
| Maximum RMS Voltage | | $V_{RMS}$ | 140 | 280 | 420 | |
| Maximum DC Blocking Voltage | | $V_{R(DC)}$ | 200 | 400 | 600 | |
| Maximum Average Forward Current | | $I_{F(AV)}$ | 30 | | | A |
| Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method) | | $I_{FSM}$ | 250 | | | |
| Maximum Forward Voltage at 15A per leg | | $V_F$ | 0.9 | 1.3 | 1.7 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | Tj=25℃ | $I_R$ | 0.2 | | | mA |
| | Tj=125℃ | | 5 | | | |
| Maximum Operating Junction Temperature | | $T_j$ | 150 | | | ℃ |
| Storage Temperature | | $T_{stg}$ | -35 ~ +150 | | | |
| Typical Thermal Resistance | | $R_{\theta JC}$ | 1.5 | | | ℃/W |

## Typical Characteristics

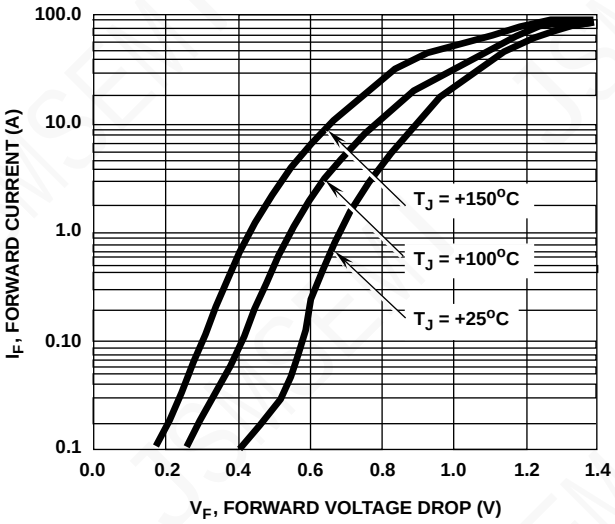



FIGURE 3. FORWARD VOLTAGE vs FORWARD CURRENT CHARACTERISTIC

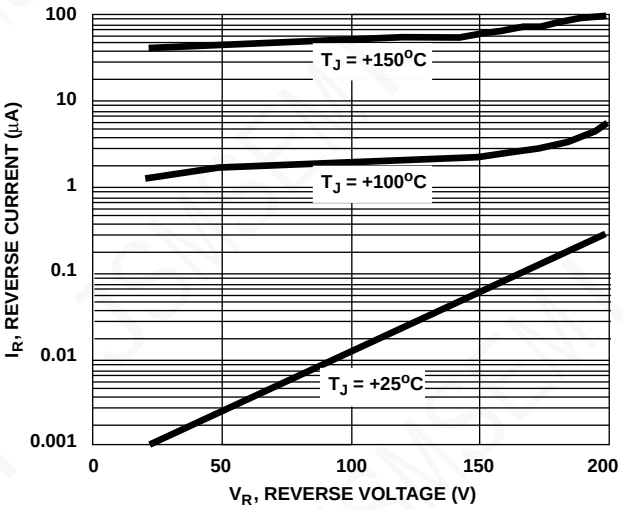



FIGURE 4. REVERSE VOLTAGE vs REVERSE CURRENT CHARACTERISTIC

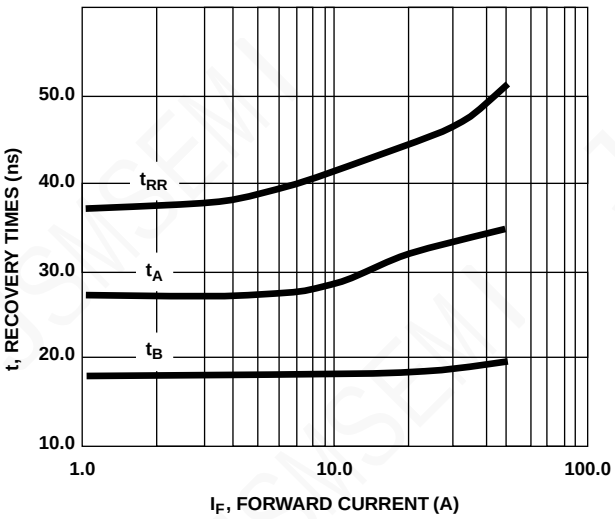



FIGURE 5. TYPICAL $t_{RR}$, $t_A$ AND $t_B$ CURVES vs FORWARD CURRENT

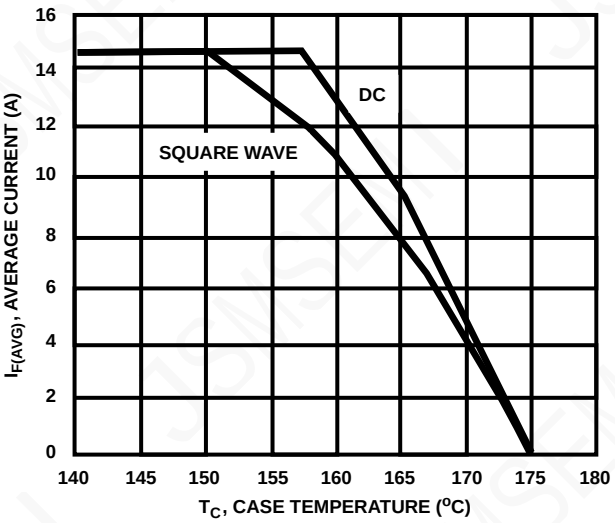



FIGURE 6. TYPICAL CURRENT DERATING CURVE vs CASE TEMPERATURE

**Package Dimension**

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Units: mm

