

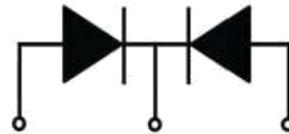
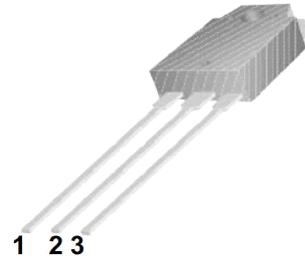
MUR3020PT - MUR3060PT
30A SUPER FAST RECOVERY



MUR3020PT - MUR3060PT

Features:

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



1. Anode 2. Cathode 3. Anode

Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

| Parameter | Symbol | MUR3020PT | MUR3040PT | MUR3060PT | Unit |
|---|-----------------------|----------------|-----------|-----------|------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 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 | T _j =25°C | I _R | 0.2 | | mA |
| | T _j =125°C | | 5 | | |
| Maximum Operating Junction Temperature | T _j | 150 | | | °C |
| Storage Temperature | T _{stg} | -35 ~ +150 | | | |
| Typical Thermal Resistance | R _{θJC} | 1.5 | | | °C/W |

Typical Characteristics

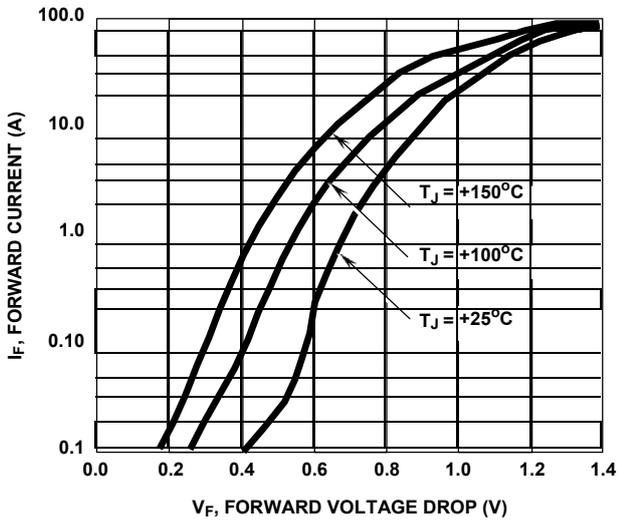


FIGURE 3. FORWARD VOLTAGE vs FORWARD CURRENT CHARACTERISTIC

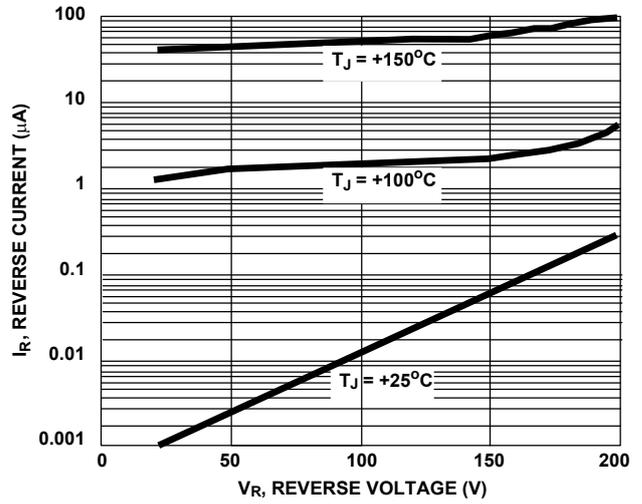


FIGURE 4. REVERSE VOLTAGE vs REVERSE CURRENT CHARACTERISTIC

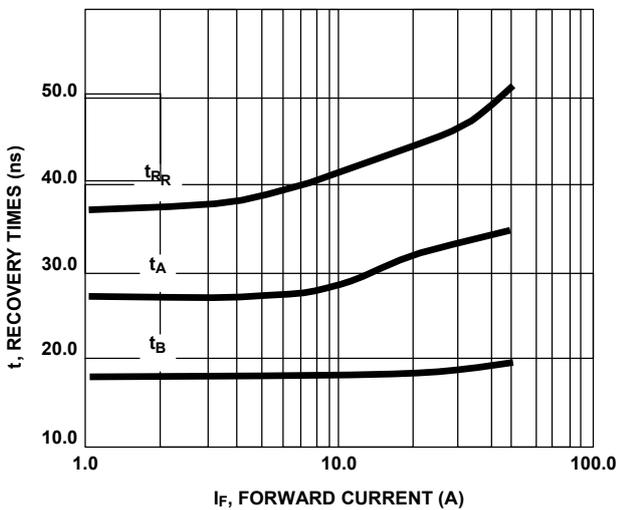


FIGURE 5. TYPICAL t_{RR} , t_A AND t_B CURVES vs FORWARD CURRENT

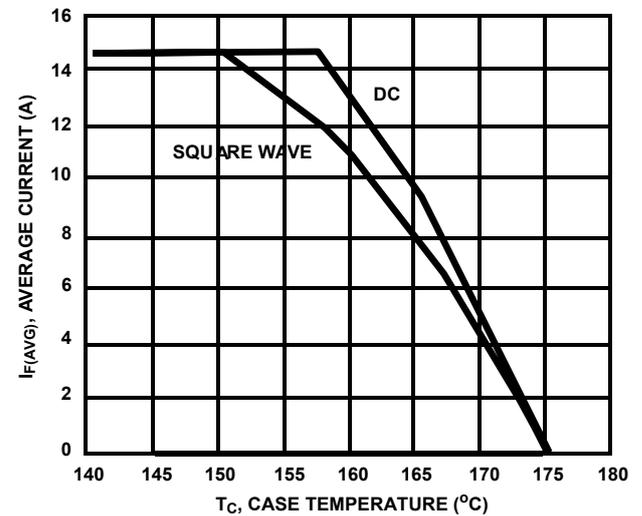


FIGURE 6. TYPICAL CURRENT DERATING CURVE vs CASE TEMPERATURE

Package Dimension

TO-3P

