

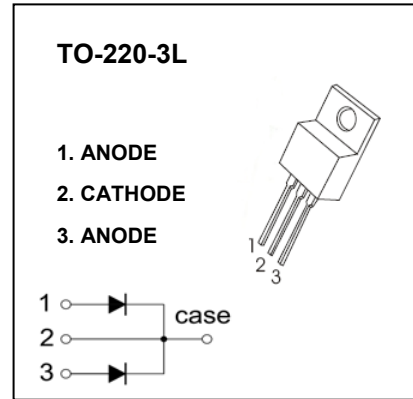


**TO- 220F SCHOTTKY BARRIER RECTIFIERS**

**MBR3045CT**

**FEATURES**

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss,High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage,High Frequency Inverters,Free Wheeling,and Polarity Protection Applications



**ELECTRICAL CHARACTERISTICS (Tamb=25°C)**

| Characteristic                                                                                                                                                   | Symbol         | MBR3045CT                    | Unit       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------|------------|
| Peak Repetitive Reverse Voltage                                                                                                                                  | $V_{RRM}$      | 45                           | V          |
| Working Peak Reverse Voltage                                                                                                                                     | $V_{RWM}$      |                              |            |
| DC Blocking Voltage                                                                                                                                              | $V_R$          |                              |            |
| Average Rectifide Output Current                                                                                                                                 | $I_c$          | 30                           | A          |
| Maximum Instaneous Forward Voltage<br>@ $I_F=20A, T_c=25^\circ C$<br>@ $I_F=20A, T_c=125^\circ C$<br>@ $I_F=30A, T_c=25^\circ C$<br>@ $I_F=30A, T_c=125^\circ C$ | $V_F$          | 0.65<br>0.62<br>0.76<br>0.72 | V          |
| Peak Reverse Current @ $T_c=25^\circ C$<br>at Rated DC Blocking Voltage @ $T_c=125^\circ C$                                                                      | $I_R$          | 100<br>250                   | $\mu A$    |
| Operating and Storage Temperature Range                                                                                                                          | $T_j, T_{stg}$ | -55 to +150                  | $^\circ C$ |

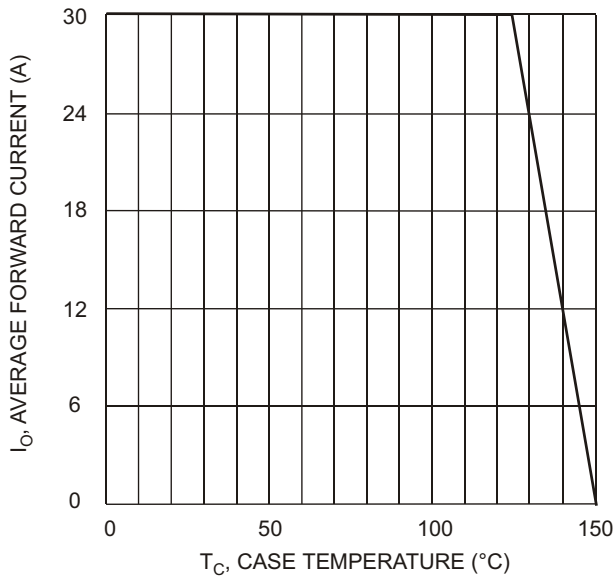


Fig. 1 Forward Current Derating Curve, total device

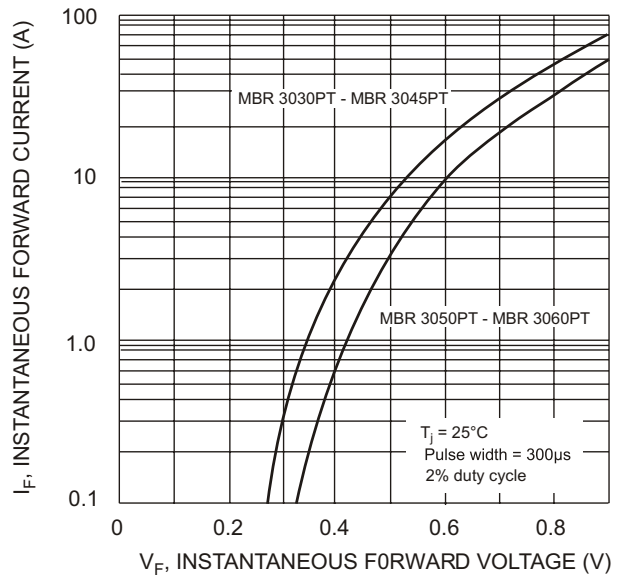


Fig. 2 Typical Forward Characteristics, per element

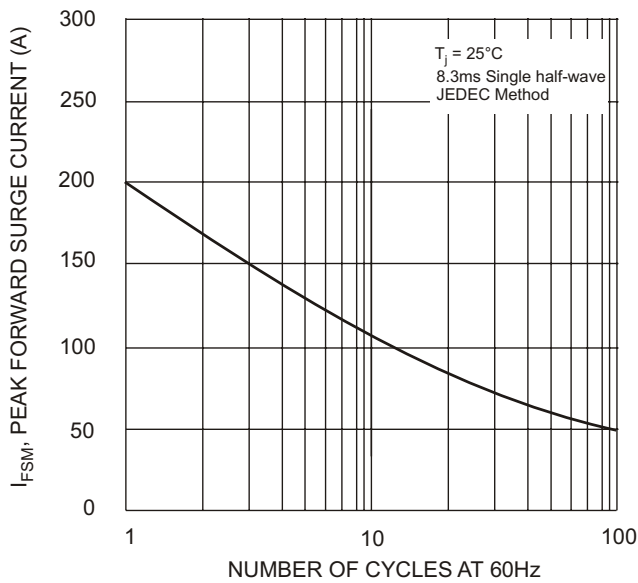


Fig. 3 Max Non-Repetitive Surge Current

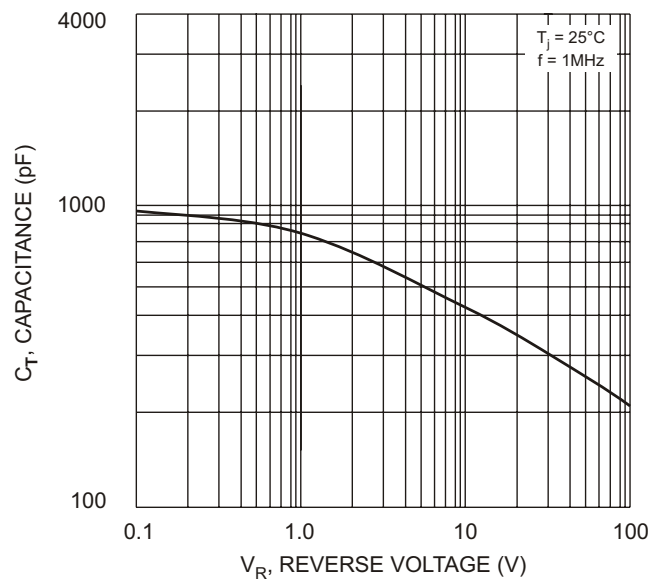


Fig. 4 Typical Total Capacitance

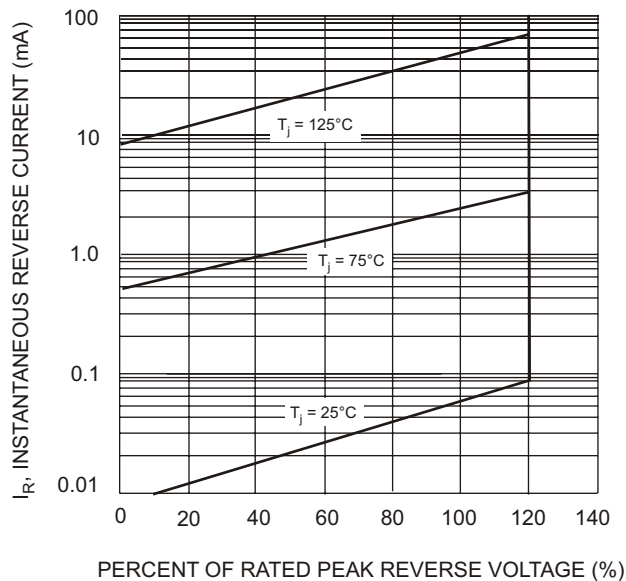


Fig. 5 Typical Reverse Characteristics, per element

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