

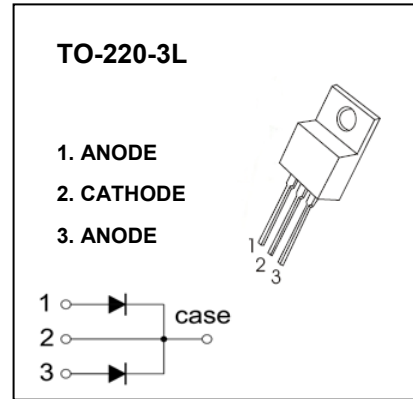


TO- 220F SCHOTTKY BARRIER RECTIFIERS

MBR3045

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 @ $I_F=20A, T_c=25^\circ C$ @ $I_F=20A, T_c=125^\circ C$ @ $I_F=30A, T_c=25^\circ C$ @ $I_F=30A, T_c=125^\circ C$ | V_F | 0.65 0.62 0.76 0.72 | V |
| Peak Reverse Current @ $T_c=25^\circ C$ at Rated DC Blocking Voltage @ $T_c=125^\circ C$ | I_R | 100 250 | μA |
| Operating and Storage Temperature Range | T_j, T_{stg} | -55 to +150 | $^\circ C$ |

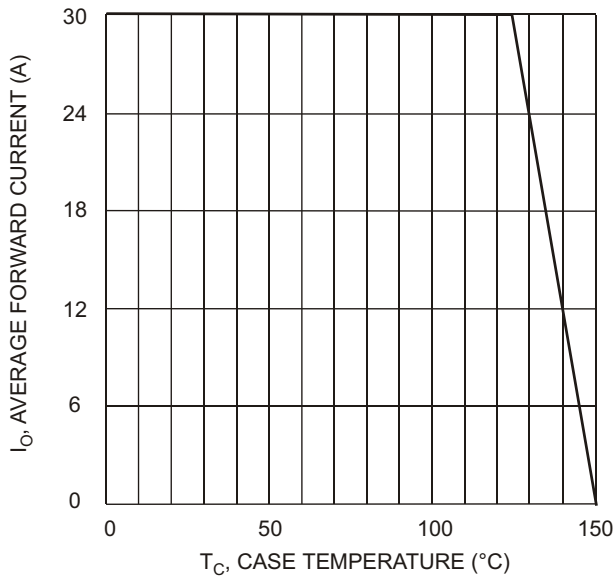


Fig. 1 Forward Current Derating Curve, total device

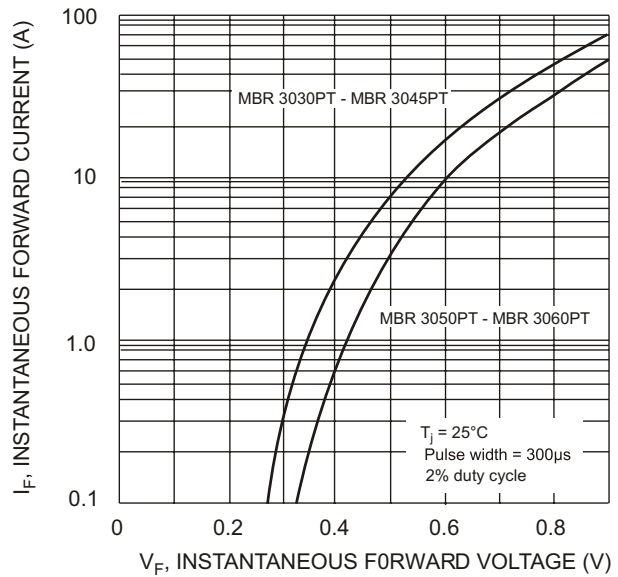


Fig. 2 Typical Forward Characteristics, per element

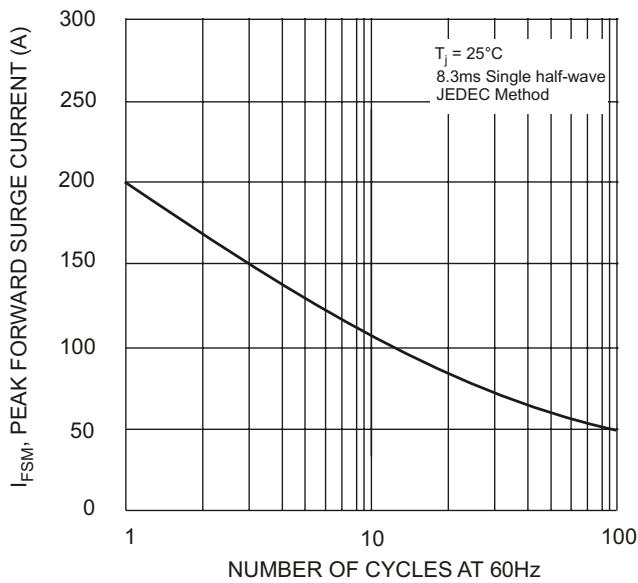


Fig. 3 Max Non-Repetitive Surge Current

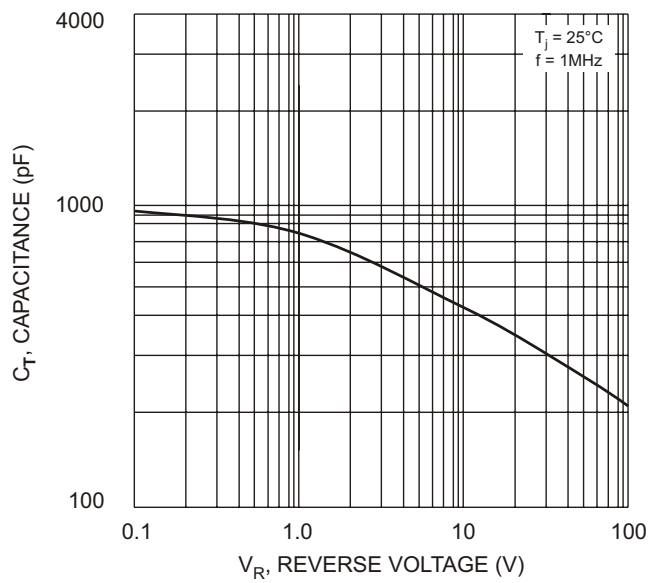


Fig. 4 Typical Total Capacitance

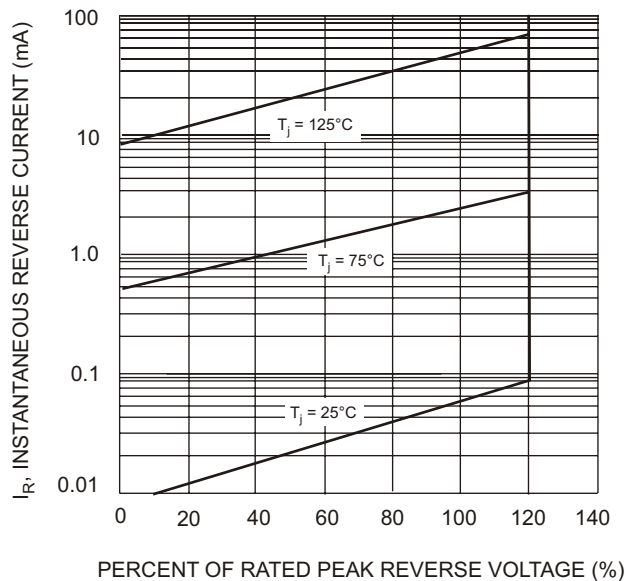


Fig. 5 Typical Reverse Characteristics, per element

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