

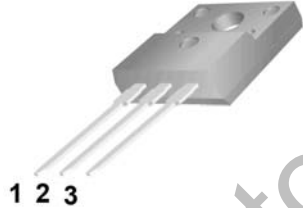



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| | |
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|  <p>MBRF20100VCT</p> <p>Features:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Low power loss, high efficiency. High surge capacity <input type="checkbox"/> For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications. <input type="checkbox"/> Metal silicon junction, majority carrier conduction. <input type="checkbox"/> High current Capability, low forward voltage drop. <input type="checkbox"/> Guard ring for over voltage protection. | <div style="text-align: right;"></div> <p style="text-align: center;">TO-220F</p>   <p style="text-align: center;">1.Anode 2.Cathode 3. Anode</p> |
|---|---|

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

| Parameter | Symbol | Value | Unit |
|--|-------------|--------------------|------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 100 | V |
| Maximum RMS Voltage | V_{RMS} | 70 | V |
| Maximum DC Blocking Voltage | $V_{R(DC)}$ | 100 | V |
| Maximum Average Forward Current | $I_{F(AV)}$ | 20 | A |
| Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 200 | A |
| Maximum Forward Voltage | V_F | 0.73 0.66(typ.) | V |
| Maximum DC Reverse Current | I_R | 0.1 | mA |
| | | 20 | mA |
| Maximum Operating Junction Temperature | T_j | 150 | °C |
| Storage Temperature | T_{stg} | -40~+150 | °C |

Typical Characteristics

RATING AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

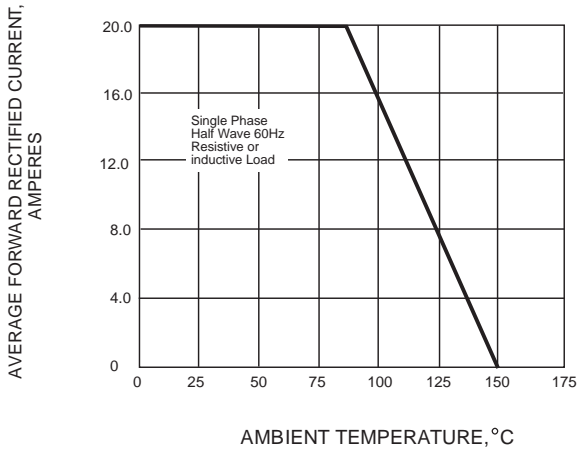


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

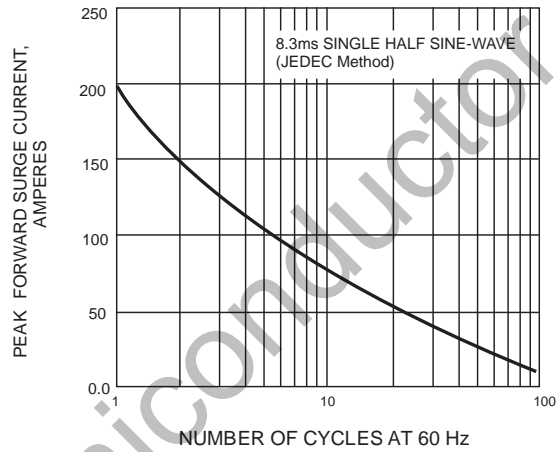


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

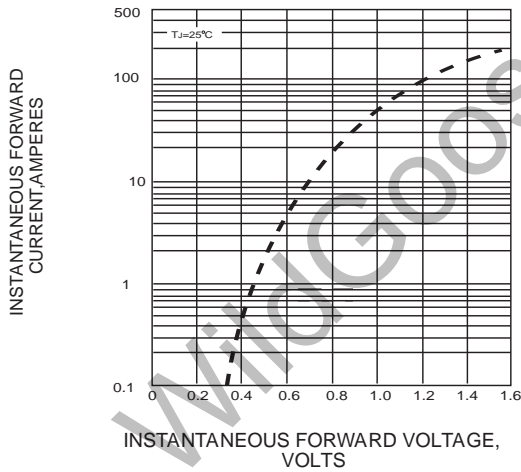
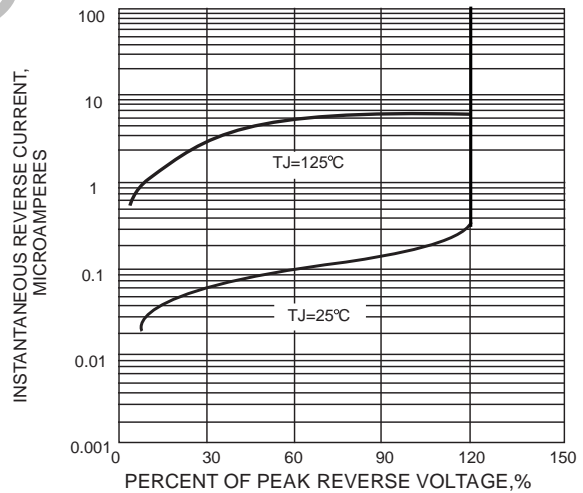


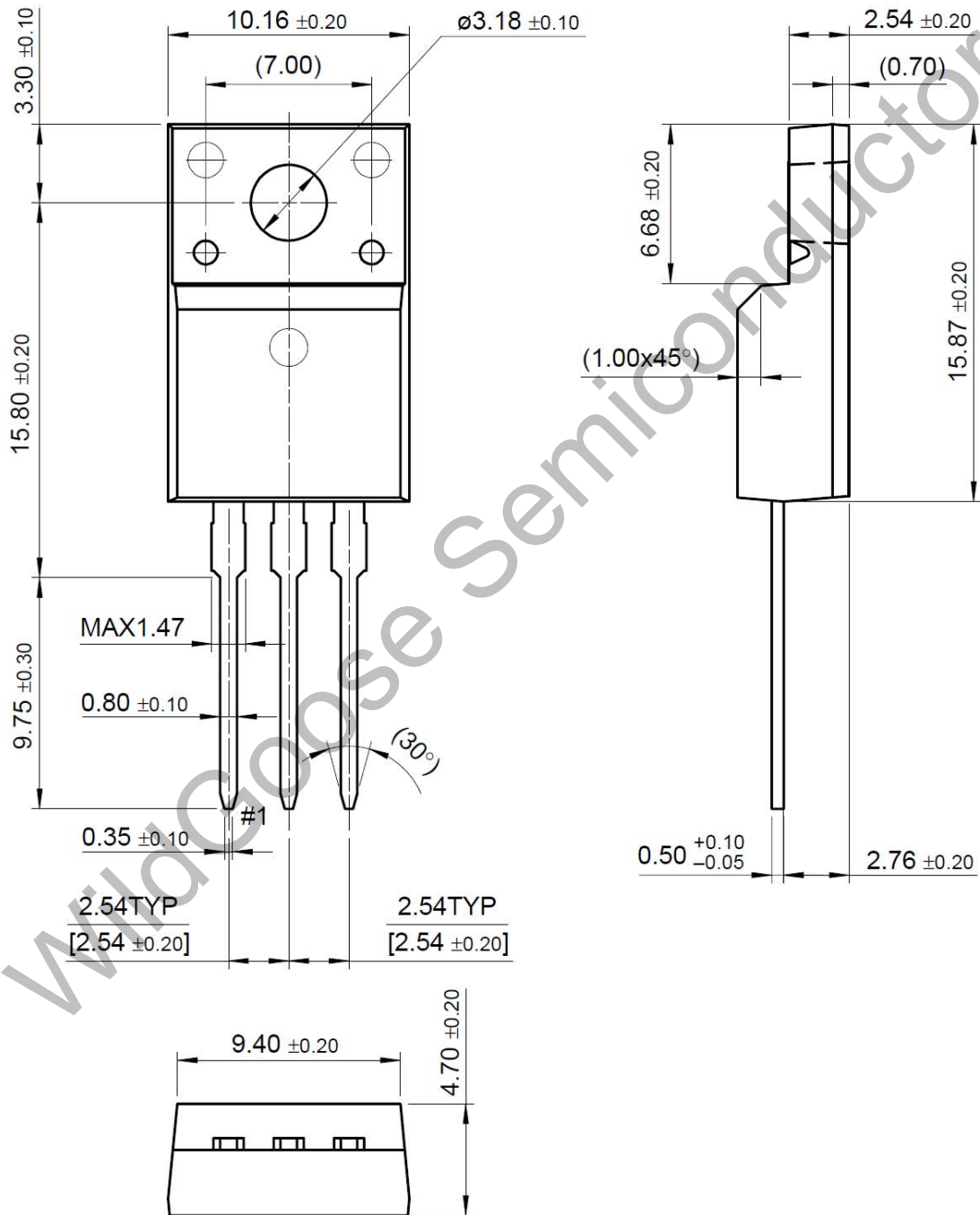
FIG. 4-TYPICAL REVERSE CHARACTERISTICS



Package Dimension

TO-220F

Units: mm



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