



MURF3020CTR – MURF3060CTR

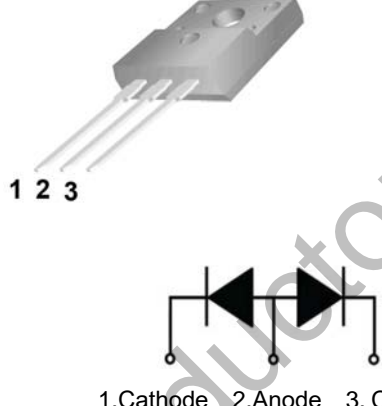
30 Amps Super Fast Recovery



Features:

- High surge capacity
- Low Forward Voltage Drop.
- High Current Capability.
- Super Fast Switching Speed For High Efficiency

TO-220F 



1.Cathode 2.Anode 3. Cathode

Maximum Ratings (Per Leg) At Ta=25°C Unless Otherwise Specified

| Parameter | | Symbols | MURF3020CTR | MURF3040CTR | MURF3060CTR | Units |
|---|---------------------|-----------------|-------------|-------------|-------------|-------|
| Maximum Repetitive Peak Reverse Voltage | | V_{RRM} | 200 | 400 | 600 | V |
| Maximum RMS voltage | | V_{RMS} | 140 | 280 | 420 | V |
| Maximum DC Blocking Voltage | | V_{DC} | 200 | 400 | 600 | V |
| Maximum Average Forward Rectified Current | Per Leg | $I_{F(AV)}$ | 15 | | | A |
| | per device | | 30 | | | |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | | I_{FSM} | 240 | | | A |
| Instantaneous forward voltage at 15A | per leg | V_F | 1.2 | 1.5 | 1.9 | V |
| Maximum instantaneous reverse current at rated DC blocking voltage | Ta=25°C Ta=125°C | I_R | 5 300 | | | uA |
| Maximum Reverse Recovery Time NOTE 1 | | t_{rr} | 45 | | | nS |
| Typical Thermal Resistance | | $R_{\theta JC}$ | 4 | | | °C/W |
| Operating Junction Temperature Range | | T_J | -55 ~ +150 | | | °C |
| Storage Temperature Range | | T_{STG} | -55 ~ +150 | | | °C |

Note1: Reverse recovery test conditions $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

Typical Characteristics

Fig.1 Forward Current Derating Curve

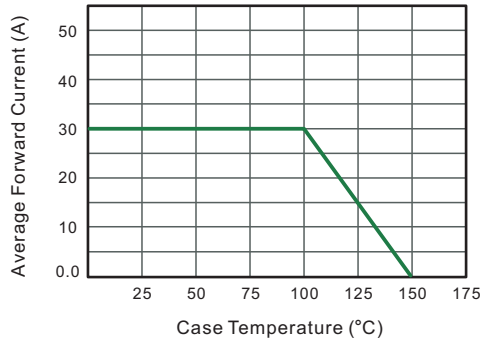


Fig.2 Typical Instaneous Reverse Characteristics

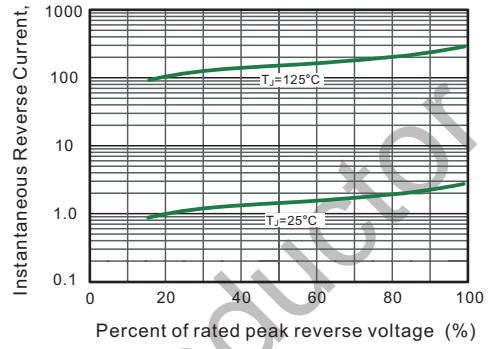


Fig.3 Typical Forward Characteristic

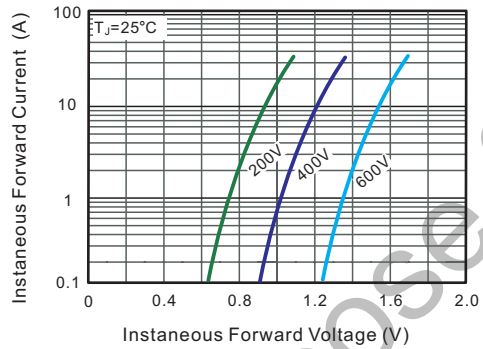
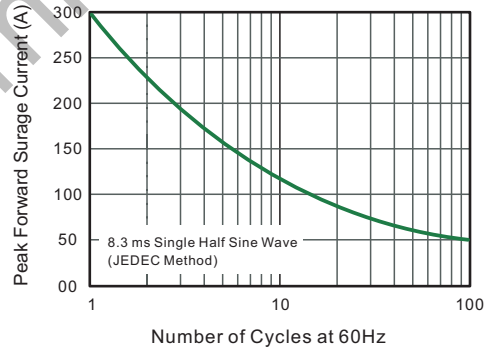
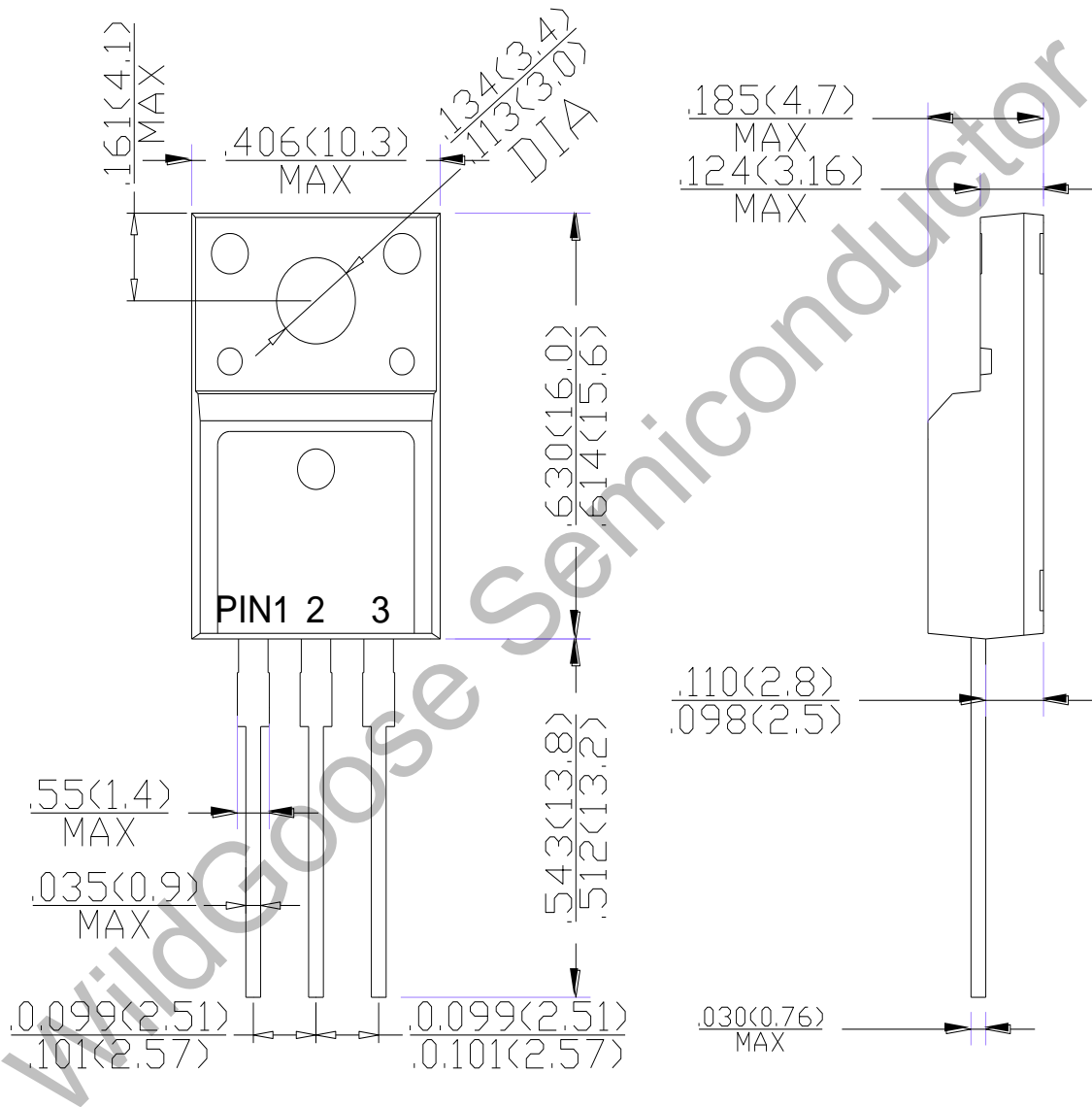


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



Package Dimension

TO-220F



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