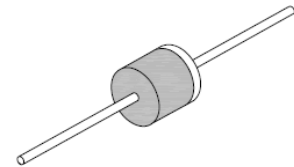


6.0A Fast Recovery Rectifier

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds
.375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliance



T6L



Mechanical Data

| | |
|-------------------|--|
| Case: | T6L (R-6), molded plastic |
| Epoxy: | UL 94V-0 rate flame retardant |
| Terminals: | Axial leads, solderable per MIL-STD-202, Method 208 guaranteed |
| Polarity: | Color band denotes cathode end |
| Weight: | 2.1 grams |

Maximum Ratings and Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless noted otherwise)

| Symbol | Description | TF 601L | TF 602L | TF 603L | TF 604L | TF 605L | TF 606L | TF 607L | Unit | Conditions |
|------------------------|---|---------|---------|---------|---------|---------|---------|---------|------|---|
| | | FR 601 | FR 602 | FR 603 | FR 604 | FR 605 | FR 606 | FR 607 | | |
| V_{RRM} | Maximum Repetitive Peak Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| V_{RMS} | Maximum RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V | |
| V_{DC} | Maximum DC Blocking Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| I_{AV} | Maximum Average Forward Rectified Current | 6.0 | | | | | | | A | T _a =55 °C |
| I_{FSM} | Peak Forward Surge Current | 300 | | | | | | | A | 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) |

6.0A Fast Recovery Rectifier

TF601L - TF607L/FR601 - FR607

| Symbol | Description | TF 601L | TF 602L | TF 603L | TF 604L | TF 605L | TF 606L | TF 607L | Unit | Conditions |
|------------------------|---|-------------|---------|---------|---------|---------|---------|---------|--|----------------------------|
| | | FR 601 | FR 602 | FR 603 | FR 604 | FR 605 | FR 606 | FR 607 | | |
| V_F | Maximum Instantaneous Forward Voltage | 1.3 | | | | | | | V | I _F =6.0 A |
| I_R | Maximum DC Reverse Current at Rated DC Blocking Voltage | 10 | | | | | | | μA | TA=25° C |
| | | 200 | | | | | | | | TA=100° C |
| T_{rr} | Typical Reverse Recovery Time | 150 | | | 250 | 500 | | nS | I _F =0.5A, I _R =1A, I _{rr} =0.25A | |
| C_J | Typical Junction Capacitance | 100 | | | | | | | pF | V _R =4V, f=1MHz |
| T_J | Operating Temperature range | -55 to +125 | | | | | | | ° C | |
| T_{STG} | Storage Temperature Range | -55 to +150 | | | | | | | | |

Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

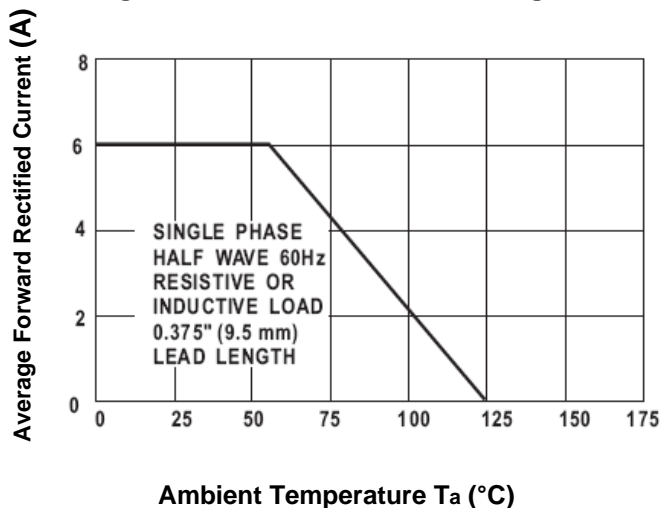
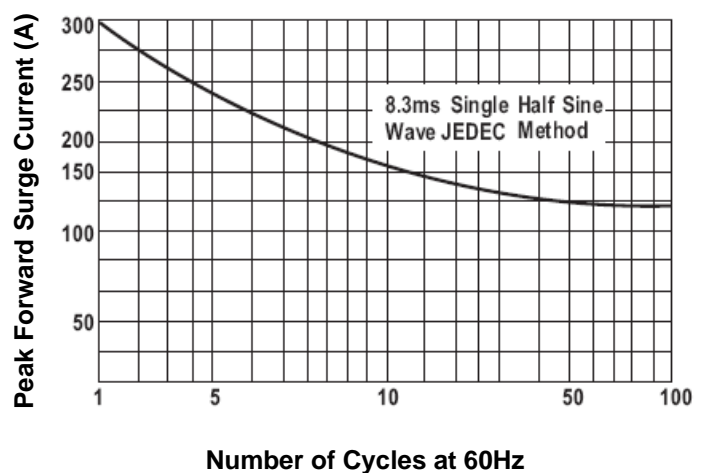


Fig.2-Max. Non-Repetitive Forward Surge Current



6.0A Fast Recovery Rectifier

TF601L - TF607L/FR601 - FR607

Fig.3- Typical Forward Characteristics

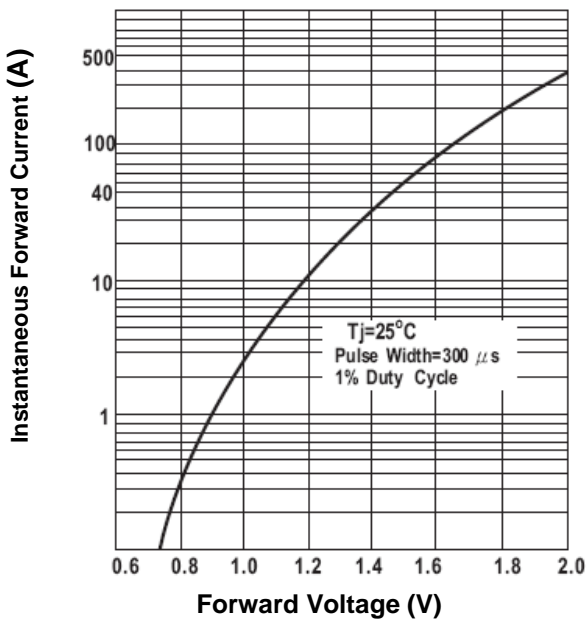
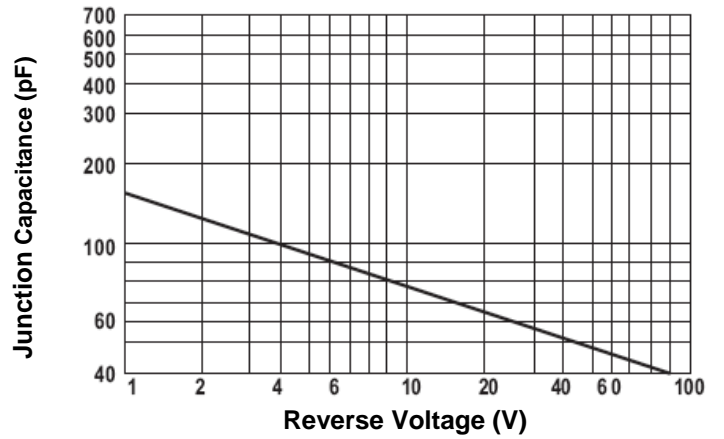
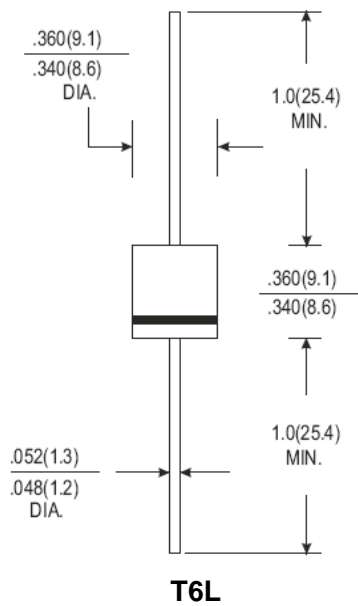


Fig.4- Typical Junction Capacitance



Dimensions in inches (mm)



6.0A Fast Recovery Rectifier

TF601L - TF607L/FR601 - FR607

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