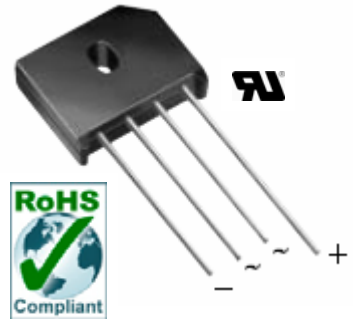


8 AMP Single-Phase Bridge Rectifier

Features

- Low Forward Voltage Drop
- High Reliability
- High Surge Current Capability
- High Temperature Soldering Guaranteed:
260° C/10 seconds, /.375" (9.5mm) lead length
- RoHS compliant



Mechanical Data

| | |
|-------------------|---|
| Case: | Molded Plastic |
| Terminals: | Plated Leads Solderable per MIL-STD-202E, Method 208C |
| Polarity: | As Marked on Body |
| Weight: | 8.0 grams (approx) |

Maximum Ratings And Electrical Characteristics (T_{amb}=25°C)

| Symbols | Parameter | TU 800 | TU 801 | TU 802 | TU 804 | TU 606 | TU 808 | TU 810 | Unit | |
|-----------------------------------|---|------------|--------|--------|--------|--------|--------|--------|--------------------------|----|
| V _{RRM} | Peak Repetitive Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| V _{DC} | DC Blocking Voltage | | | | | | | | | |
| V _{RWM} | Working Peak Reverse Voltage | | | | | | | | | |
| V _{R(RMS)} | RMS Reverse Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V | |
| I _{F(AV)} | Average Rectified Output Current at T _c =100°C | 8.0 | | | | | | | A | |
| I _{FSM} | Non-Repetitive Peak Forward Surge Current single sine-wave superimposed on rated load | 300 | | | | | | | A | |
| V _F | Forward Voltage per element at I _F =8.0A | 1.0 | | | | | | | V | |
| I _R | Peak Reverse Current At Rated DC blocking voltage | 10 | | | | | | | at T _A =25°C | μA |
| | | 1000 | | | | | | | at T _A =100°C | |
| C _J | Typical Junction Capacitance | 200 | | | | | | | pF | |
| T _J , T _{STG} | Operating and Storage Temperature Range | -55 to 150 | | | | | | | °C | |

Note: Single Phase, half wave, 60Hz, resistive or inductive load
For Capacitive load derate current by 20%

8 AMP Single-Phase Bridge Rectifier

TU800 - TU810

Rating and characteristic curves

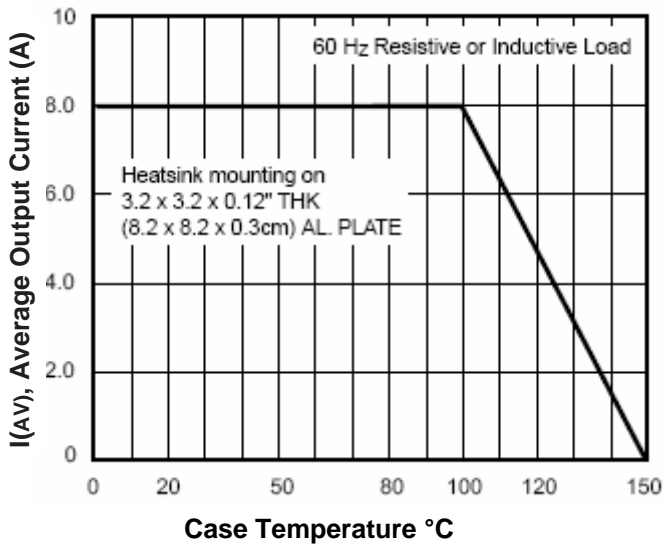


Fig.1- Forward Current Derating Curve

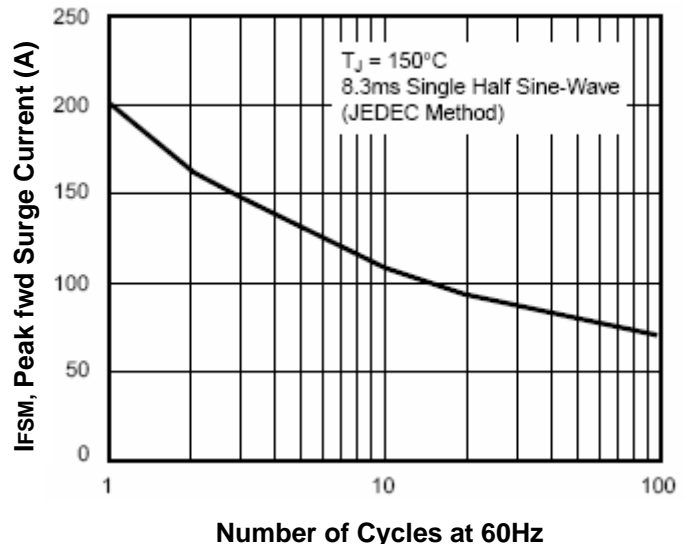


Fig.2- Max Peak Forward Surge Current

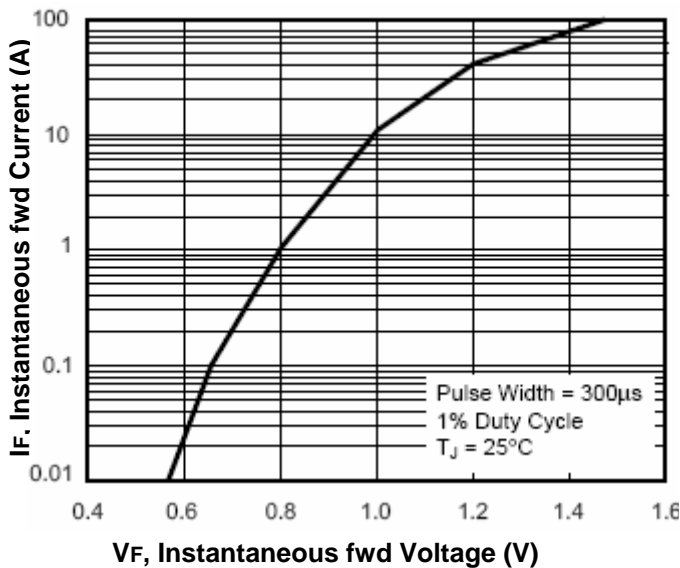


Fig.3- Typical Forward Characteristics per element

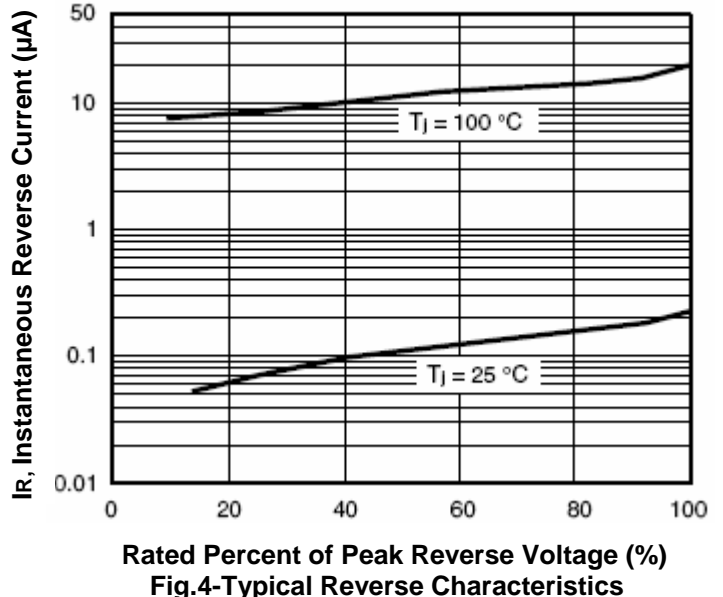


Fig.4- Typical Reverse Characteristics

8 AMP Single-Phase Bridge Rectifier

TU800 - TU810

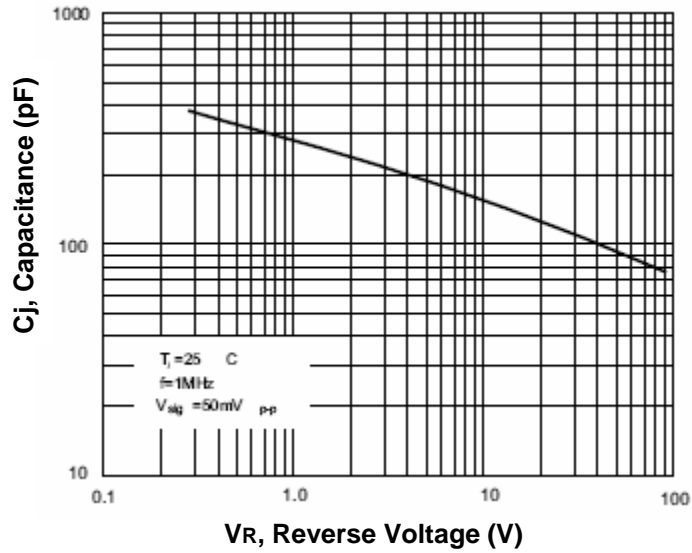
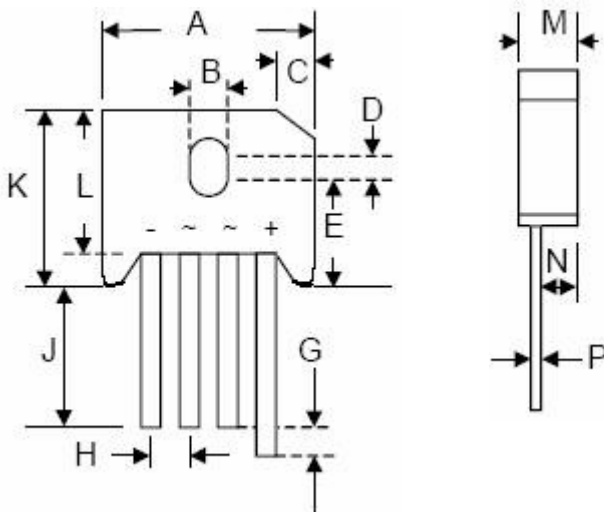


Fig.4-Typical Junction Capacitance per Element

Dimensions (mm)



| Dim | Min | Max |
|-----------------------------|------|------|
| A | 22.7 | 23.7 |
| B | 3.8 | 4.1 |
| C | 4.2 | 4.7 |
| D | 1.7 | 2.2 |
| E | 10.3 | 11.3 |
| G | 4.5 | 6.8 |
| H | 4.6 | 5.6 |
| J | 25.4 | ---- |
| K | ---- | 19.3 |
| L | 16.8 | 17.8 |
| M | 6.6 | 7.1 |
| N | 4.7 | 5.2 |
| P | 1.2 | 1.3 |
| All Dimensions in mm | | |

8 AMP Single-Phase Bridge Rectifier

TU800 - TU810

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