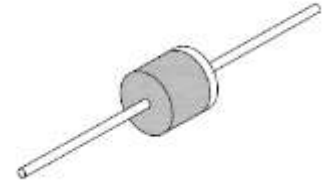


6.0A Sintered Glass Passivated Rectifier (SGP[®])

Features

- Sintered glass passivated (SGP[®]) rectifier chip
- Capable of meeting environmental standards of MIL-S-19500
- 6.0A operation at T_A=55° C with no thermal runaway
- High temperature soldering guaranteed: 260°C/10 seconds
/.0375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliance



**P-600
(T6L)**



Mechanical Data

| | |
|-------------------|-------------------------------------------------------------|
| Case: | JEDEC P-600 (T6L) molded plastic body |
| Epoxy: | Plastic package has UL flammability classification 94V-0 |
| Terminals: | Plated axial leads, solderable per MIL-STD-750, Method 2026 |
| Polarity: | Color band denotes cathode end |
| Weight: | 0.07 ounces, 2.1 grams |

Maximum Ratings and Electrical Characteristics (T_A=25°C unless noted otherwise)

| Symbol | Description | GP60 AL | GP60 BL | GP60 DL | GP60 GL | GP60 JL | GP60 KL | GP60 ML | Unit | Conditions |
|--------------------------|-------------------------------------------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------------------------------------------------------|
| 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_{F(AV)} | Maximum Average Forward Rectified Current | 6.0 | | | | | | | A | 0.375" (9.5mm) lead length(Fig.1) |
| I_{FSM} | Peak Forward Surge Current | 250 | | | | | | | A | 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) |

6.0A Sintered Glass Passivated Rectifier (SGP[®])

GP60AL - GP60ML

| Symbol | Description | GP60 AL | GP60 BL | GP60 DL | GP60 GL | GP60 JL | GP60 KL | GP60 ML | Unit | Conditions |
|------------------------|---------------------------------------------------------|-------------|---------|---------|---------|---------|---------|---------|------|----------------------------|
| V_F | Maximum Instantaneous Forward Voltage | 1.0 | | | | | | | V | I _F =6.0 A |
| I_R | Maximum DC Reverse Current at Rated DC Blocking Voltage | 5 | | | | | | | μA | TA=25° C |
| | | 50 | | | | | | | | TA=125° C |
| C_J | Typical Junction Capacitance | 100 | | | | | | | pF | V _R =4V, f=1MHz |
| T_J | Operating Temperature range | -65 to +175 | | | | | | | ° C | |
| T_{STG} | Storage Temperature Range | -65 to +175 | | | | | | | | |

Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

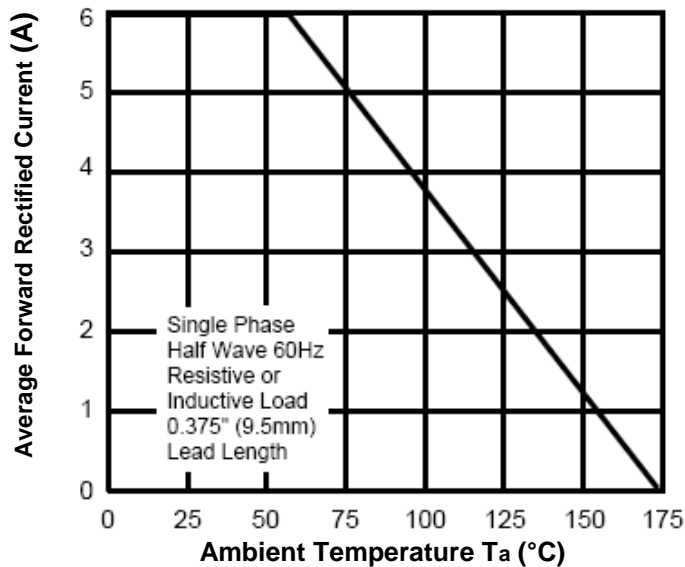
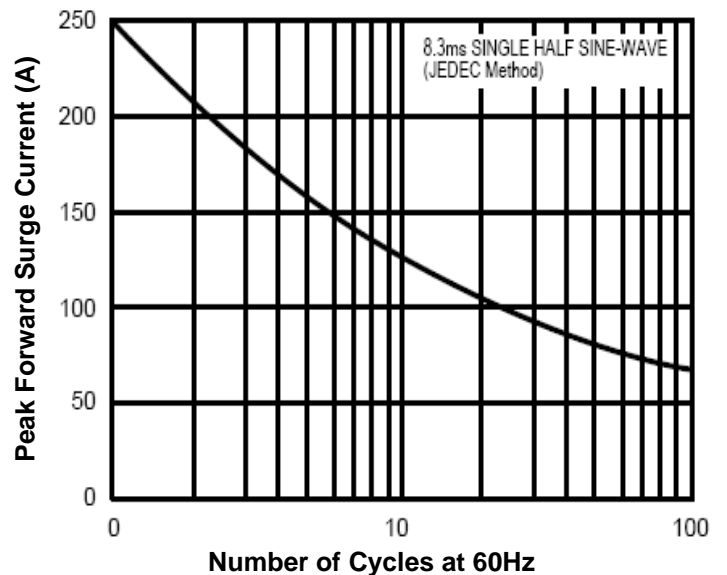


Fig.2-Max. Non-Repetitive Forward Surge Current



6.0A Sintered Glass Passivated Rectifier (SGP[®])

GP60AL - GP60ML

Fig.3- Typical Forward Characteristics

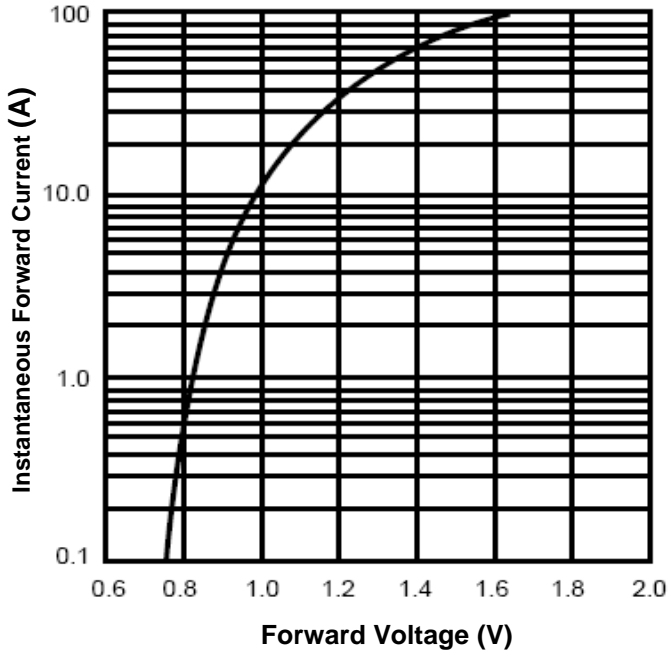


Fig.4-Typical Reverse Characteristics

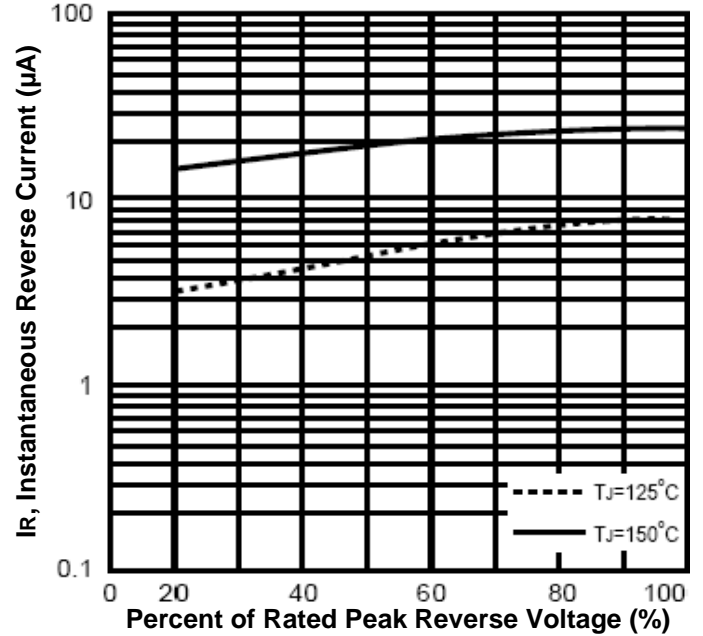
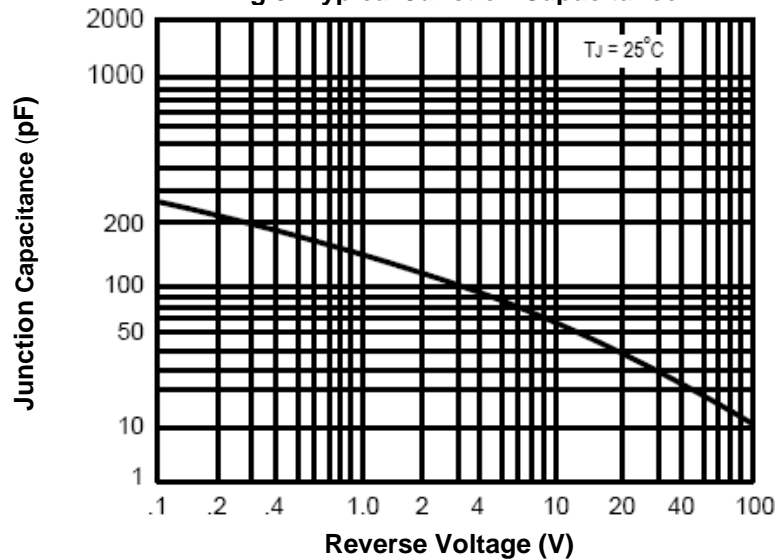


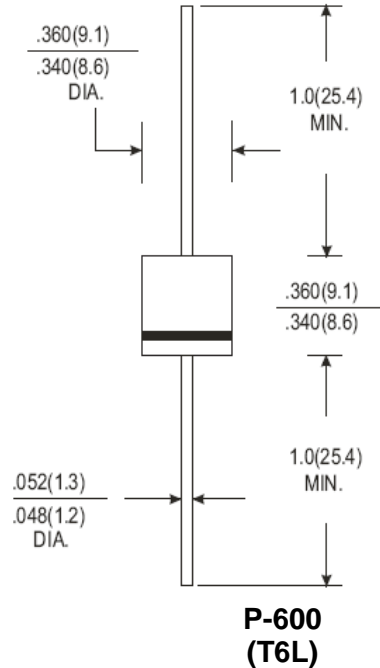
Fig.5- Typical Junction Capacitance



6.0A Sintered Glass Passivated Rectifier (SGP[®])

GP60AL - GP60ML

Dimensions in inches (mm)



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