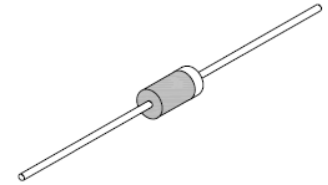


2.0A Sintered Glass Passivated Rectifier

Features

- Sintered glass passivated (SGP) rectifier chip
- Capable of meeting environmental standards of MIL-S-19500
- 2.0A operation at $T_A=55^\circ\text{C}$ with no thermal runaway
- High temperature soldering guaranteed: $260^\circ\text{C}/10$ seconds
/.0375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliance



**DO-15
(DO-204AC)**



Mechanical Data

| | |
|-------------------|---|
| Case: | JEDEC DO-204AC(DO-15) 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: | 0.015 ounces, 0.4 gram |

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

| Symbol | Description | GP20A | GP20B | GP20D | GP20G | GP20J | GP20K | GP20M | 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 | 2.0 | | | | | | | A | 0.375" (9.5mm) lead length(Fig.1) |
| I_{FSM} | Peak Forward Surge Current | 65 | | | | | | | A | 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) |

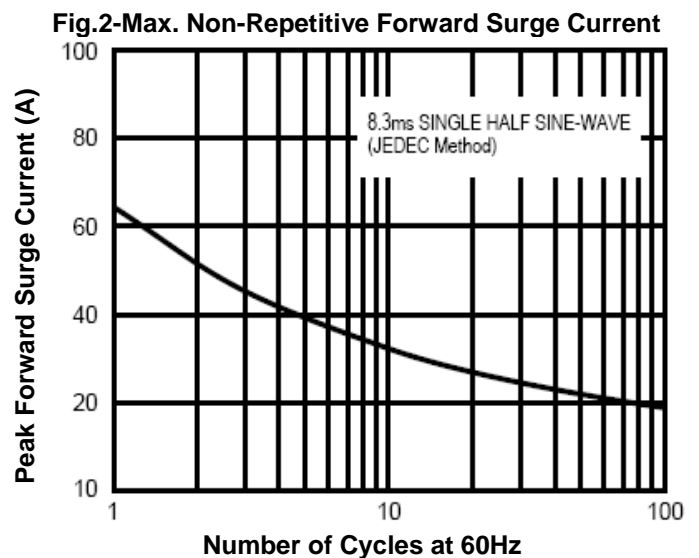
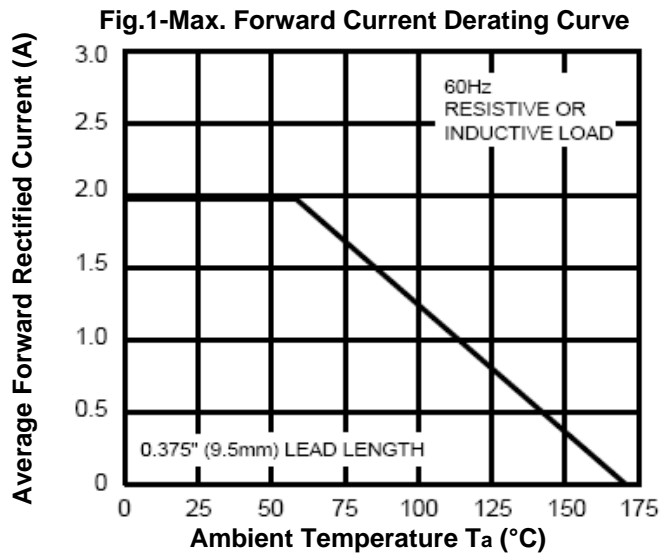
2.0A Sintered Glass Passivated Rectifier

GP20A – GP20M

| Symbol | Description | GP20A | GP20B | GP20D | GP20G | GP20J | GP20K | GP20M | Unit | Conditions |
|--|---|-------------|-------|-------|-------|-------|-------|-------|--------|----------------------------|
| V_F | Maximum Instantaneous Forward Voltage | 1.0 | | | | | | | V | I _F =2.0 A |
| I_R | Maximum DC Reverse Current at Rated DC Blocking Voltage | 5 | | | | | | | μA | T _A =25° C |
| | | 30 | | | | | | | | T _A =125° C |
| | | 80 | | | | | | | | T _A =150° C |
| C_J | Typical Junction Capacitance | 25 | | | | | | | pF | V _R =4V, f=1MHz |
| R_{thJA} R_{thJL} | Typical Thermal Resistance | 35 15 | | | | | | | °C / W | Note |
| T_J, T_{STG} | Operating Junction and Storage Temperature Range | -65 to +175 | | | | | | | °C | |

Note: Thermal resistance from junction to ambient at 0.375" (9.5mm) lead lengths, P.C.B mounted.

Typical Characteristics Curves



2.0A Sintered Glass Passivated Rectifier

GP20A - GP20M

Fig.3- Typical Forward Characteristics

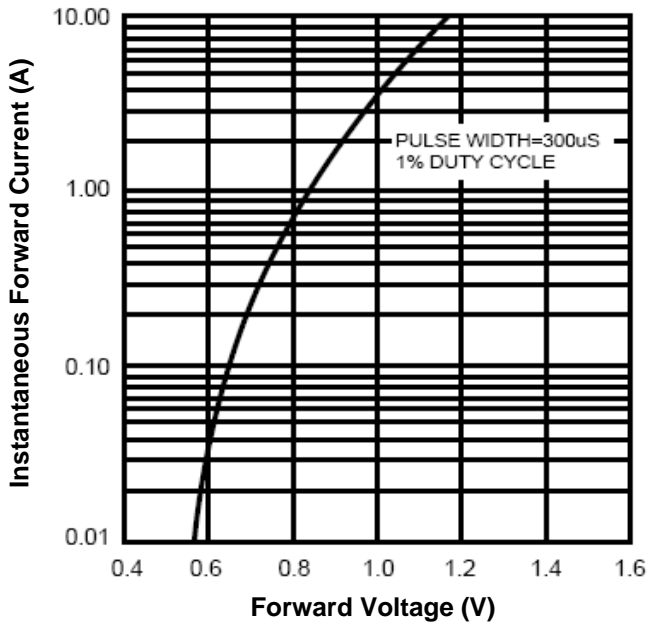


Fig.4-Typical Reverse Characteristics

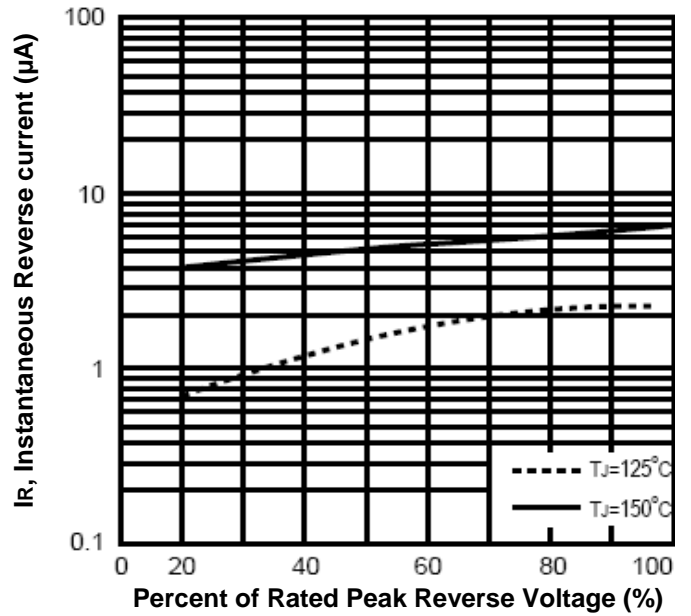
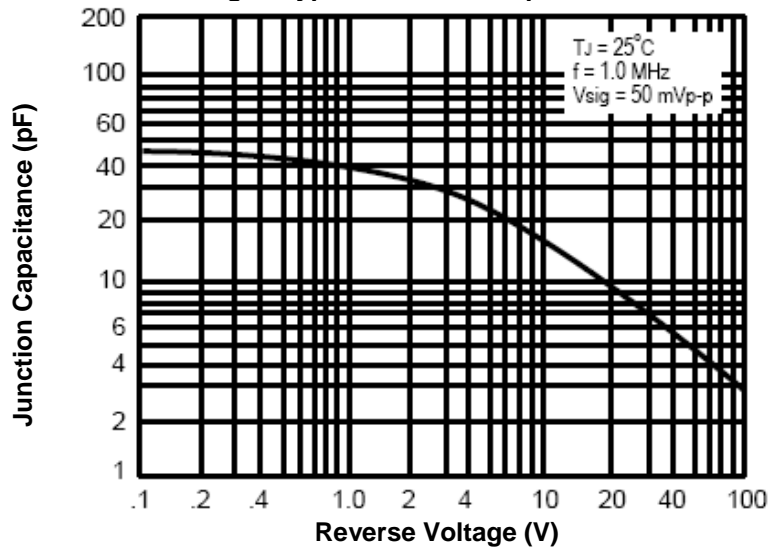


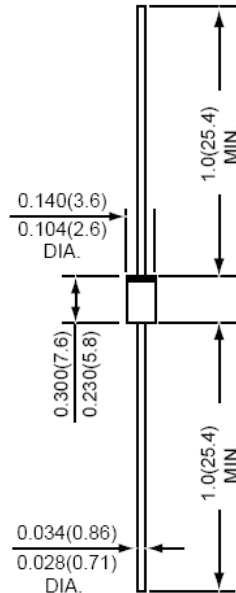
Fig.5- Typical Junction Capacitance



2.0A Sintered Glass Passivated Rectifier

GP20A - GP20M

Dimensions in inches (mm)



DO-15
(DO-204AC)

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