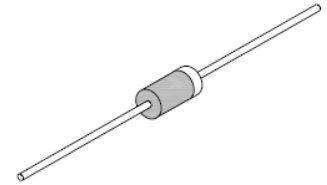


**2.0A Sintered Glass Passivated Rectifier (SGP<sup>®</sup>)**

**Features**

- Sintered glass passivated (SGP<sup>®</sup>) rectifier chip
- Capable of meeting environmental standards of MIL-S-19500
- 2.0A operation at T<sub>A</sub>=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



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



**Mechanical Data**

<b>Case:</b>	JEDEC DO-204AC(DO-15) molded plastic body
<b>Epoxy:</b>	Plastic package has UL flammability classification 94V-0
<b>Terminals:</b>	Plated axial leads, solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	Color band denotes cathode end
<b>Weight:</b>	0.015 ounces, 0.4 gram

**Maximum Ratings and Electrical Characteristics** (T<sub>A</sub>=25°C unless noted otherwise)

Symbol	Description	GP20A	GP20B	GP20D	GP20G	GP20J	GP20K	GP20M	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
<b>I<sub>F(AV)</sub></b>	Maximum Average Forward Rectified Current	2.0							A	0.375" (9.5mm) lead length(Fig.1)
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	65							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

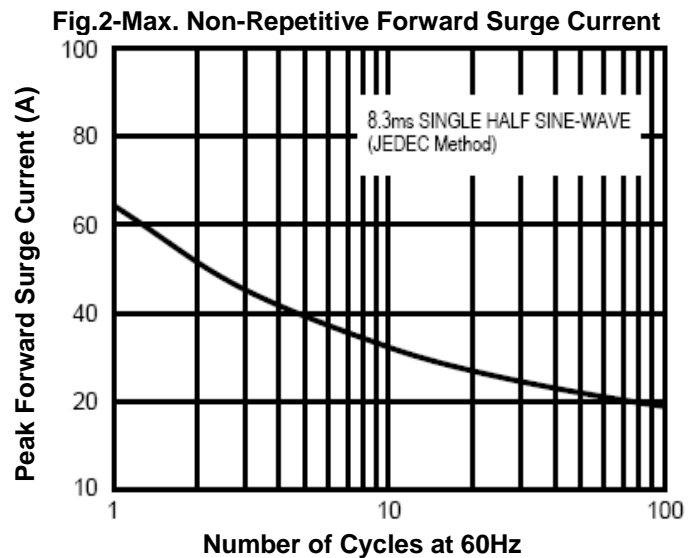
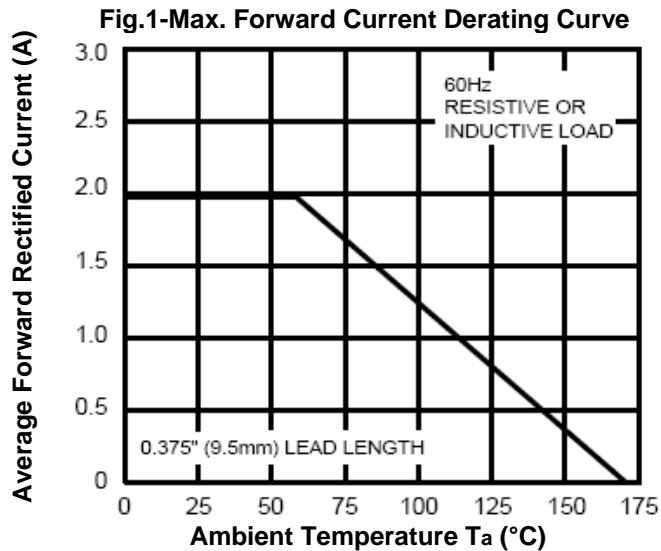
# 2.0A Sintered Glass Passivated Rectifier (SGP<sup>®</sup>)

## GP20A - GP20M

Symbol	Description	GP20A	GP20B	GP20D	GP20G	GP20J	GP20K	GP20M	Unit	Conditions
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage	1.0							V	I <sub>F</sub> =2.0 A
<b>I<sub>R</sub></b>	Maximum DC Reverse Current at Rated DC Blocking Voltage	5							μA	T <sub>A</sub> =25° C
		30								T <sub>A</sub> =125° C
		80								T <sub>A</sub> =150° C
<b>C<sub>J</sub></b>	Typical Junction Capacitance	25							pF	V <sub>R</sub> =4V, f=1MHz
<b>R<sub>thJA</sub></b> <b>R<sub>thJL</sub></b>	Typical Thermal Resistance	35 15							°C / W	Note
<b>T<sub>J</sub>,T<sub>STG</sub></b>	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 (SGP<sup>®</sup>)

## GP20A - GP20M

Fig.3- Typical Forward Characteristics

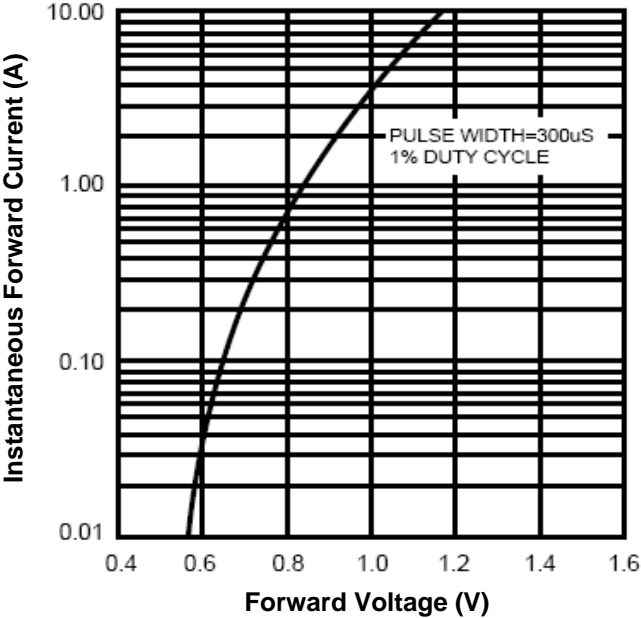


Fig.4-Typical Reverse Characteristics

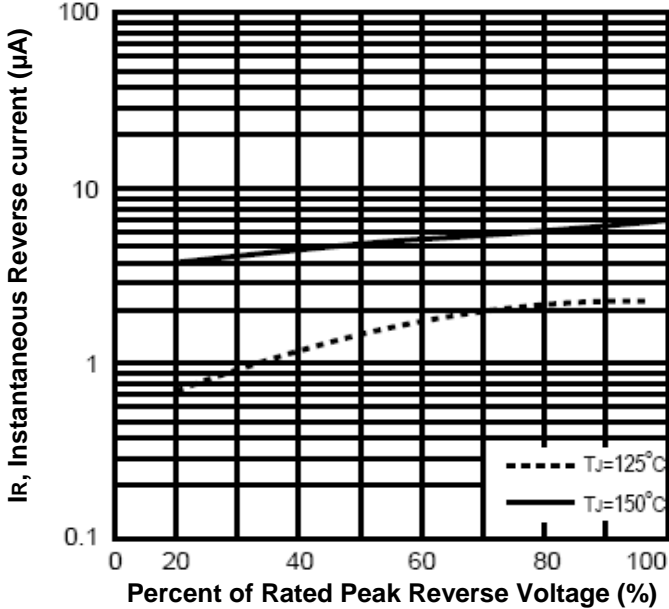
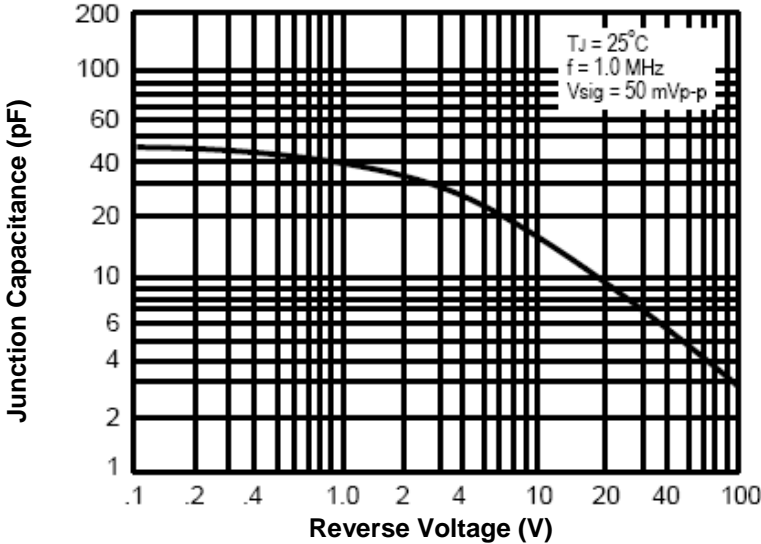


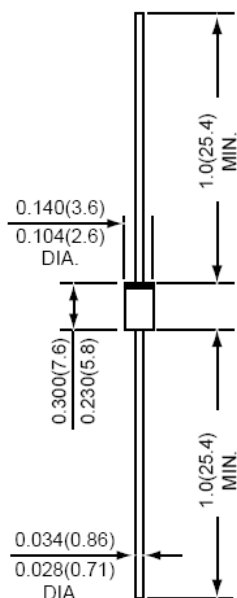
Fig.5- Typical Junction Capacitance



## 2.0A Sintered Glass Passivated Rectifier (SGP<sup>®</sup>)

GP20A - GP20M

Dimensions in inches (mm)



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

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