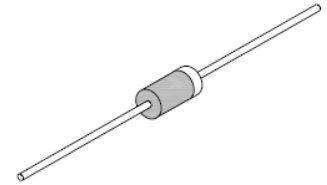


**1.5A Sintered Glass Passivated Rectifier**

**Features**

- Sintered glass passivated (SGP) rectifier chip
- Capable of meeting environmental standards of MIL-S-19500
- 1.5A 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**

<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** ( $T_A=25^\circ\text{C}$  unless noted otherwise)

Symbol	Description	GP15A	GP15B	GP15D	GP15G	GP15J	GP15K	GP15M	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	1.5							A	0.375" (9.5mm) lead length(Fig.1)
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	50							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

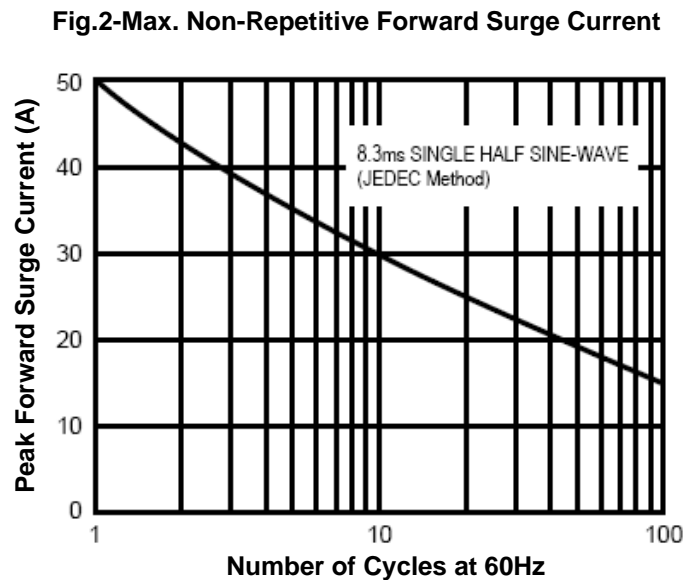
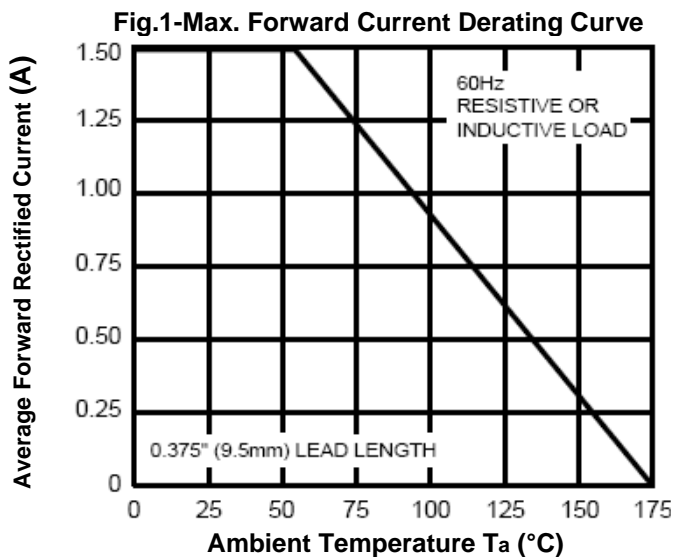
# 1.5A Sintered Glass Passivated Rectifier

## GP15A - GP15M

Symbol	Description	GP15A	GP15B	GP15D	GP15G	GP15J	GP15K	GP15M	Unit	Conditions
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage	1.1							V	I <sub>F</sub> =1.5 A
<b>I<sub>R</sub></b>	Maximum DC Reverse Current at Rated DC Blocking Voltage	5							μA	TA=25° C
		50								TA=125° C
		100								TA=150° C
<b>C<sub>J</sub></b>	Typical Junction Capacitance	20							pF	V <sub>R</sub> =4V, f=1MHz
<b>R<sub>thJA</sub></b> <b>R<sub>thJL</sub></b>	Typical Thermal Resistance	45 20							°C / W	Note
<b>T<sub>J</sub></b>	Operating Temperature range	-65 to +175							°C	
<b>T<sub>STG</sub></b>	Storage Temperature Range	-65 to +175								

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

### Typical Characteristics Curves



# 1.5A Sintered Glass Passivated Rectifier

## GP15A - GP15M

Fig.3- Typical Forward Characteristics

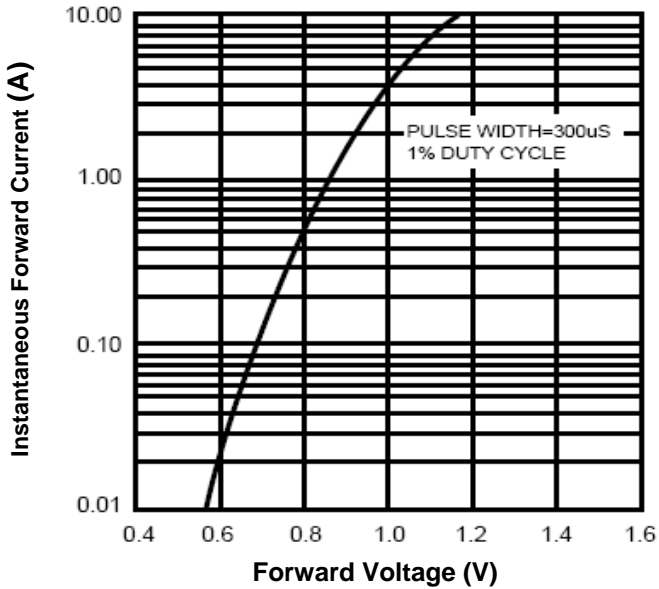


Fig.4-Typical Reverse Characteristics

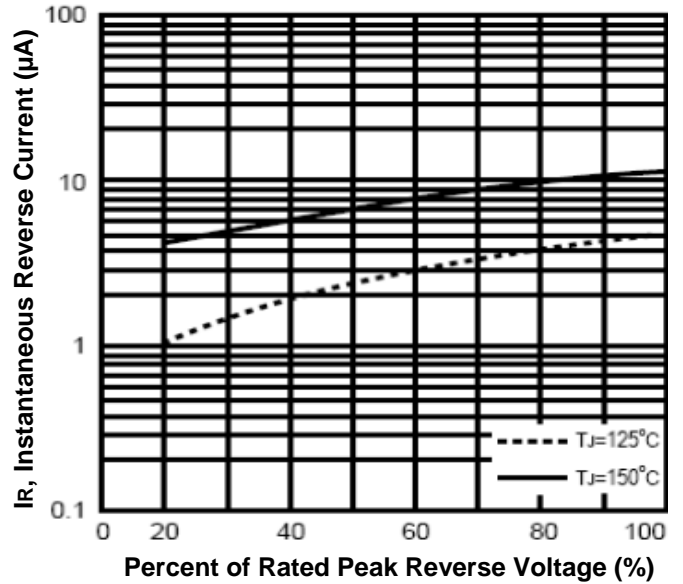
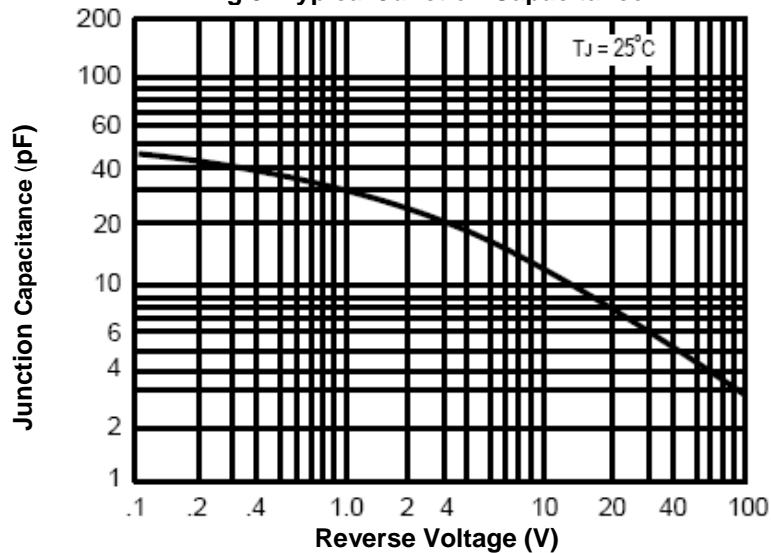


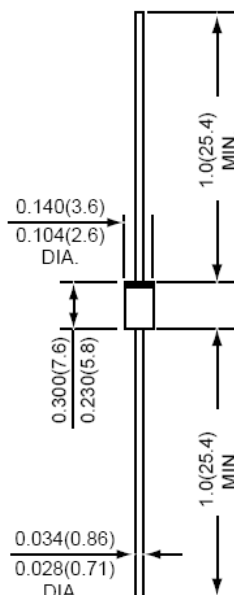
Fig.5- Typical Junction Capacitance



# 1.5A Sintered Glass Passivated Rectifier

GP15A - GP15M

Dimensions in inches (mm)



DO-15  
(DO-204AC)

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