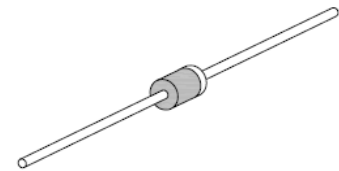


## 1.0A Sintered Glass Passivated Rectifier

### Features

- Sintered glass passivated (SGP) rectifier chip
- Capable of meeting environmental standards of MIL-S-19500
- 1.0A operation at  $T_A=75^\circ\text{C}$  and  $55^\circ\text{C}$  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-41  
(DO-204AL)**



### Mechanical Data

<b>Case:</b>	JEDEC DO-204AL(DO-41) 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>	0.012 ounces, 0.3 gram

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

Symbol	Description	GP02-20	Unit	Conditions
<b>VRRM</b>	Maximum Repetitive Peak Reverse Voltage	2000	V	
<b>VRMS</b>	Maximum RMS Voltage	1400	V	
<b>VDC</b>	Maximum DC Blocking Voltage	2000	V	
<b>IF(AV)</b>	Maximum Average Forward Rectified Current	1.0	A	0.375" (9.5mm) lead length (Fig.1)
<b>IFSM</b>	Peak Forward Surge Current	30	A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

# 1.0A Sintered Glass Passivated Rectifier

## GP02-20

Symbol	Description	GP02-20	Unit	Conditions
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage	2.0	V	I <sub>F</sub> =1.0 A
<b>I<sub>R</sub></b>	Maximum DC Reverse Current at Rated DC Blocking Voltage	5	μA	T <sub>A</sub> =25° C
		50		T <sub>A</sub> =100° C
<b>C<sub>J</sub></b>	Typical Junction Capacitance	10	pF	V <sub>R</sub> =4V, f=1MHz
<b>R<sub>thJA</sub></b>	Typical Thermal Resistance	55	°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

Fig.1-Max. Forward Current Derating Curve

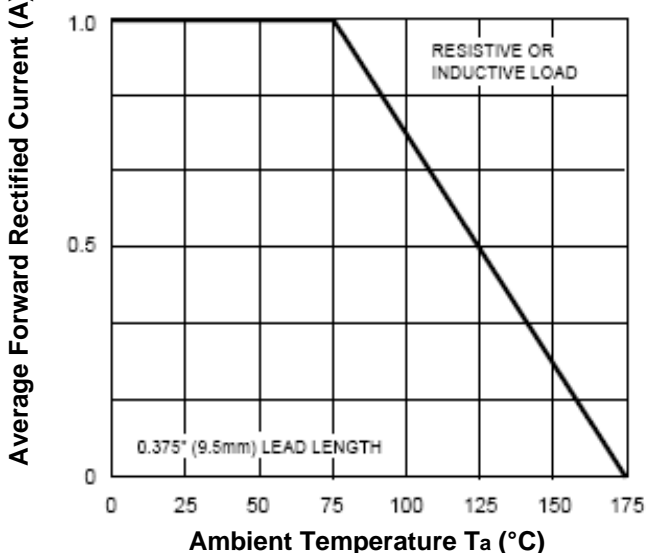
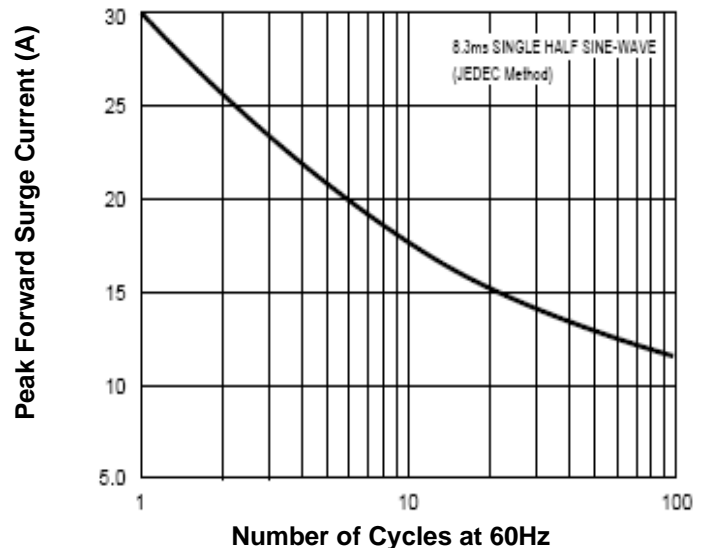


Fig.2-Max. Non-Repetitive Peak Forward Surge Current



# 1.0A Sintered Glass Passivated Rectifier

GP02-20

Fig.3- Typical Instantaneous Forward Characteristics

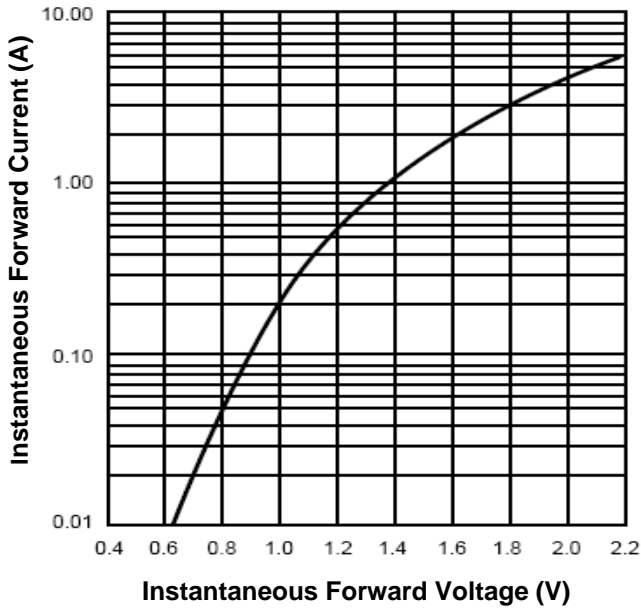


Fig.4-Typical Reverse Characteristics

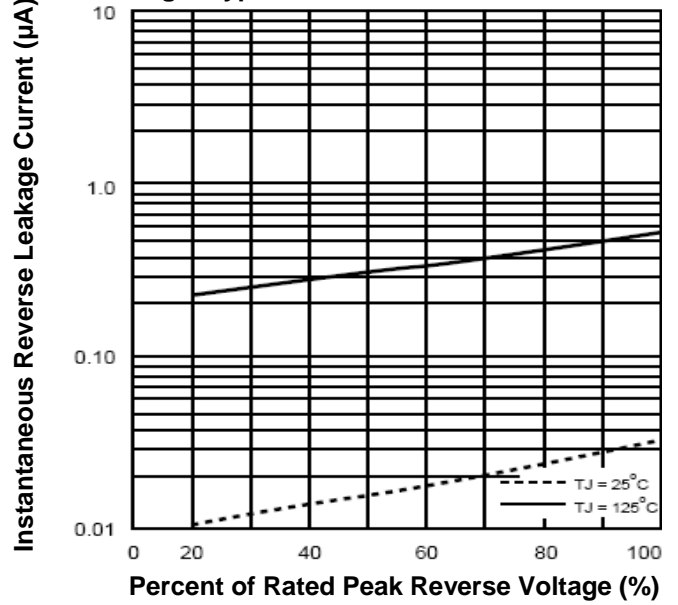
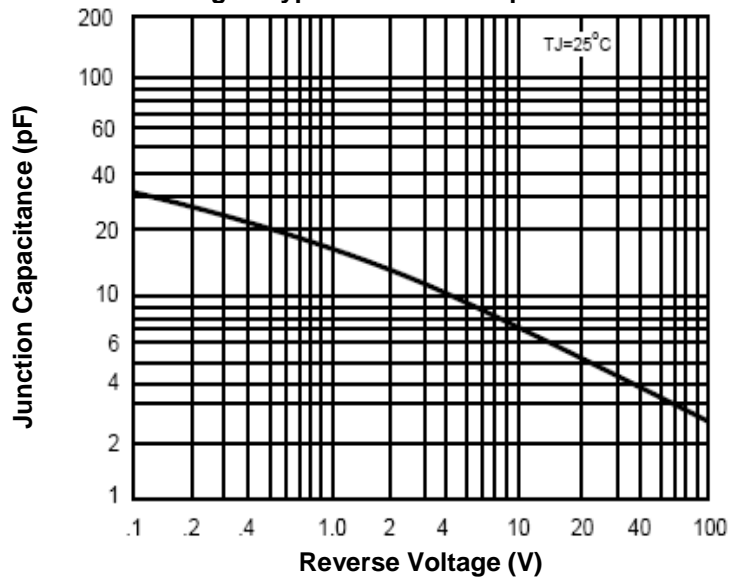


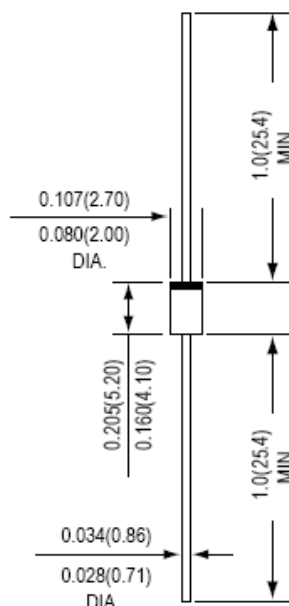
Fig.5- Typical Junction Capacitance



# 1.0A Sintered Glass Passivated Rectifier

GP02-20

Dimensions in inches (mm)



DO-41  
(DO-204AL)

How to contact us:

## US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: [taitron@taitroncomponents.com](mailto:taitron@taitroncomponents.com)

Http://[www.taitroncomponents.com](http://www.taitroncomponents.com)

## TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.

42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

## TAITRON COMPONETS INCORPORATED E REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

## TAITRON COMPONETS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931