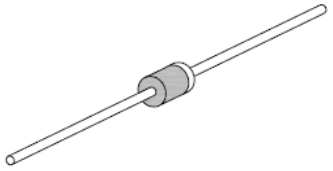
1.0A Sintered Glass Passivated Rectifier

Features

- Sintered glass passivated (SGP) rectifier chip
- Capable of meeting environmental standards of MIL-S-19500
- 1.0A operation at T_A=75° C and 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-41
(DO-204AL)

RoHS Compliant

Mechanical Data

Case:	JEDEC DO-204AL(DO-41) 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:	0.012 ounces, 0.3 gram

Maximum Ratings and Electrical Characteristics *(T_A=25ºC unless noted otherwise)*

Symbol	Description	GP02-20	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	2000	V	
V_{RMS}	Maximum RMS Voltage	1400	V	
V_{DC}	Maximum DC Blocking Voltage	2000	V	
$I_{F(AV)}$	Maximum Average Forward Rectified Current	1.0	A	0.375” (9.5mm) lead length (Fig.1)
I_{FSM}	Peak Forward Surge Current	30	A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

Tel: (800)-TAITRON (800)-824-8766 (661)-257-6060
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GP02-20

Symbol	Description	GP02-20	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage	2.0	V	I_F=1.0 A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5	µA	T_A=25° C
		50		T_A=100° C
C_J	Typical Junction Capacitance	10	pF	V_R=4V, f=1MHz
Rth_{JA}	Typical Thermal Resistance	55	°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

Fig.1-Max. Forward Current Derating Curve

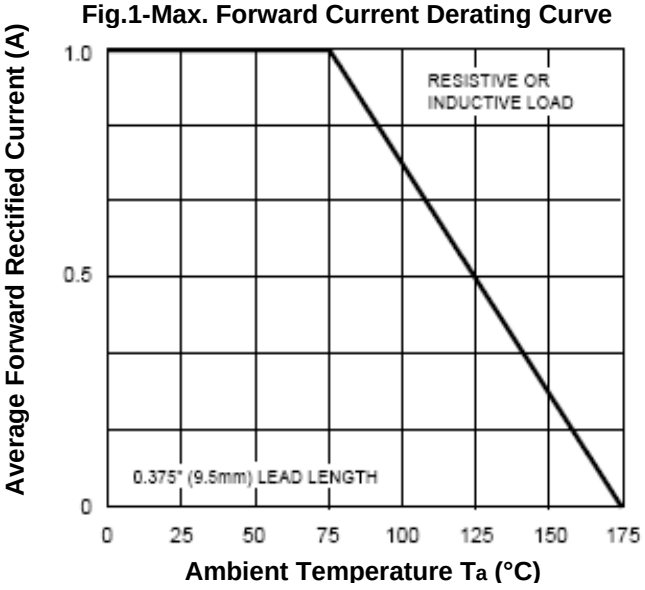


Fig.2-Max. Non-Repetitive Peak Forward Surge Current

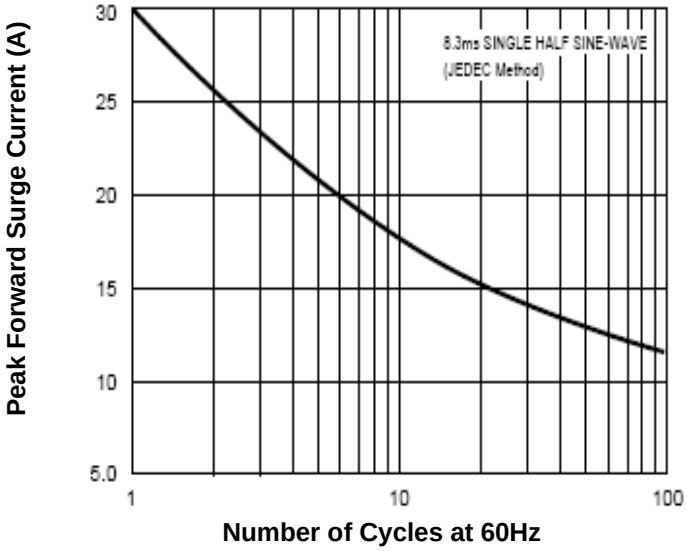


Fig.3- Typical Instantaneous Forward Characteristics

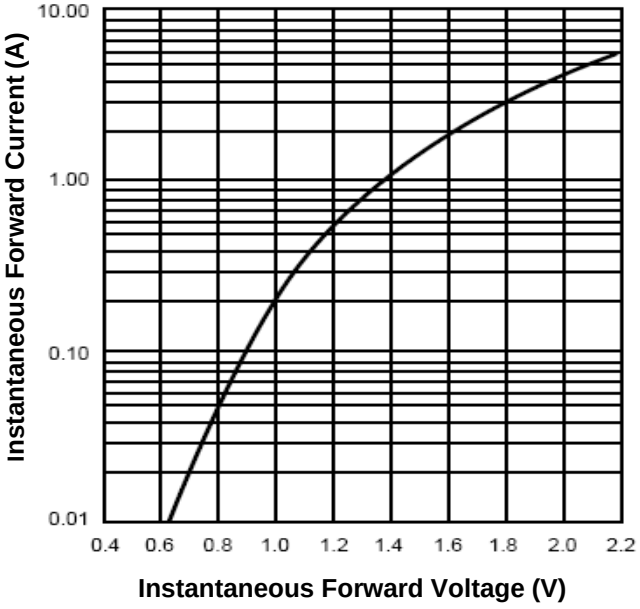


Fig.4-Typical Reverse Characteristics

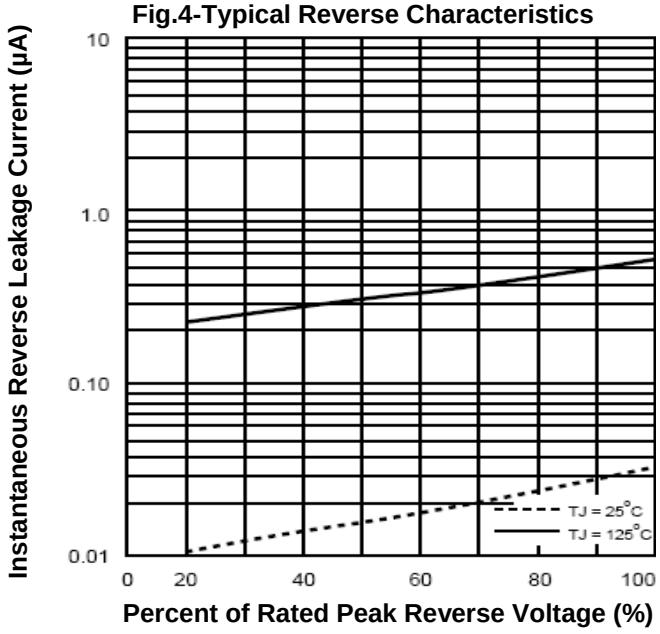
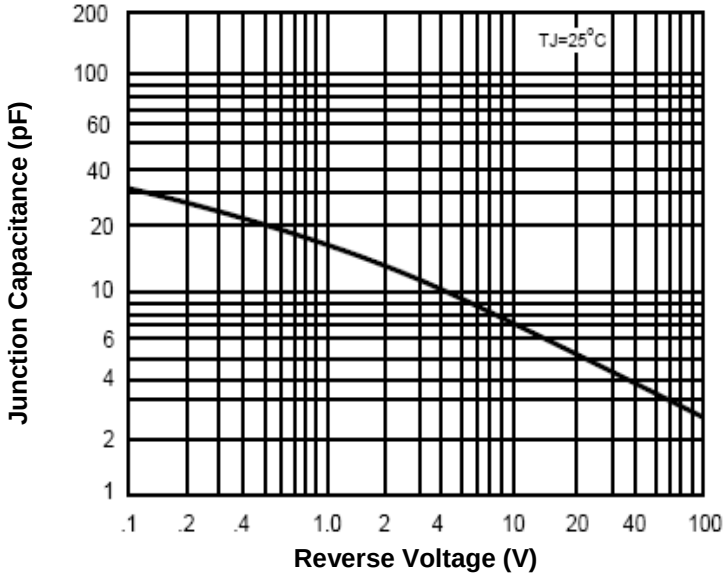
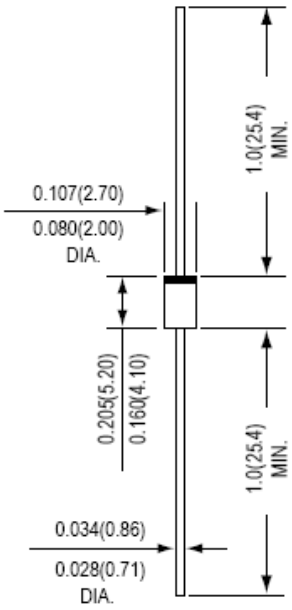


Fig.5- Typical Junction Capacitance



Dimensions in inches (mm)



DO-41
(DO-204AL)

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