

Glass Passivated Junction Rectifier (Discontinued)

Features

- Plastic package has Underwriters Laboratory Flammability 94V-0
- High temperature metallurgically bonded construction
- Capable of meeting environmental standards of MIL-S-19500
- 3.0 Ampere operation at $T_A=70^{\circ}\text{C}$ with no thermal runaway
- Typical I_R less than $0.1\mu\text{A}$
- Glass passivated cavity-free junction
- High temperature soldering guaranteed:
350°C/10 seconds, .037" (9.5mm) lead length,
5lbs (2.3kg) tension



DO-201AD

Mechanical Data

Case:	JEDEC DO-201AD molded plastic over glass body
Terminals:	Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Mounting Position:	Any
Weight:	0.04 ounce, 1.12 gram

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

Symbol	Description	1N5624GP	1N5625GP	1N5627GP	Unit	Conditions
V_{RRM}	*Maximum Repetitive Peak Reverse Voltage	200	400	800	V	
V_{DC}	Maximum DC Blocking Voltage	200	400	800	V	
I_{F(AV)}	*Maximum Average Forward Rectified Current	3.0			A	0.375" (9.5 mm) lead length at $T_A=70^{\circ}\text{C}$
I_{FSM}	*Peak Forward Surge Current	125.0			A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
V_F	*Maximum Instantaneous Forward Voltage	1.0			V	$I_F=3.0\text{A}$, $T_A=25^{\circ}\text{C}$
		0.95				$I_F=3.0\text{A}$, $T_A=70^{\circ}\text{C}$

General Semiconductor

Symbol	Description	1N5624GP	1N5625GP	1N5627GP	Unit	Conditions
IR(AV)	*Maximum Full Load Reverse Current, Full Cycle Average	200.0			μA	0.375" (9.5 mm) lead length at TA=70 °C
IR	*Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0			μA	TA=25°C
		300.0	300.0	200.0		TA=150°C
Trr	Typical Reverse Recovery Time	3.0			μs	Note 1
CJ	Typical Junction Capacitance	40.0			pF	Note 2
RthJA	Typical Thermal Resistance	20.0			°C / W	Note 3
TJ, TSTG	Operating Junction and Storage Temperature Range	-65 to +175			°C	

Notes:

- 1: Reverse recovery test condition: $I_F=0.5A$, $I_R=1.0A$, $I_{rr}=0.25A$.
- 2: Measured at 1.0MHz and applied reverse voltage of 4.0V
- 3: Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted.

*JEDEC Registered Values

Typical Characteristics Curves *(T_A=25°C unless noted otherwise)*

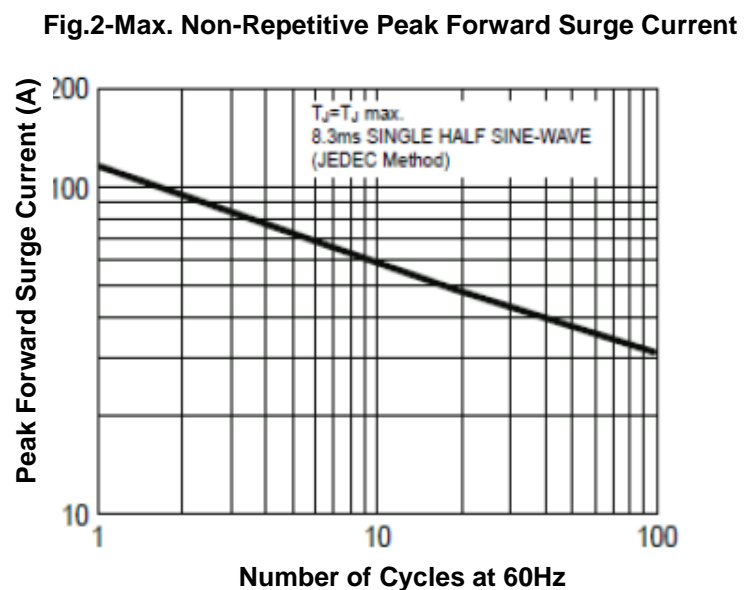
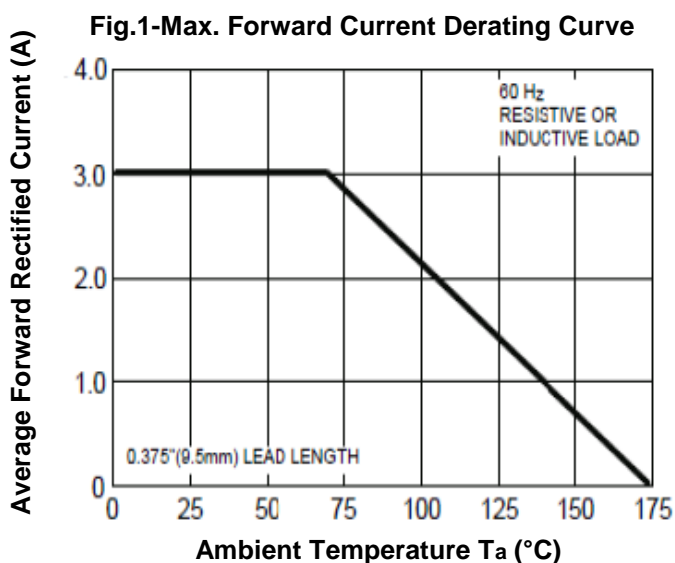


Fig.3- Typical Instantaneous Forward Characteristics

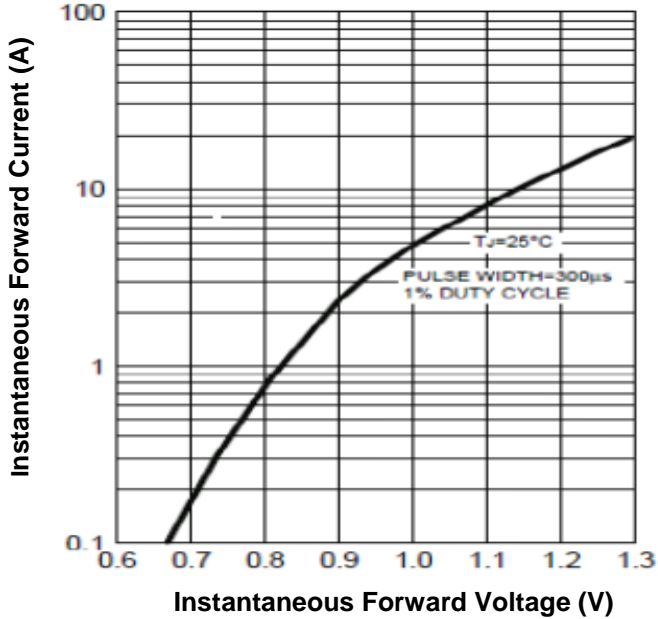


Fig.4-Typical Reverse Characteristics

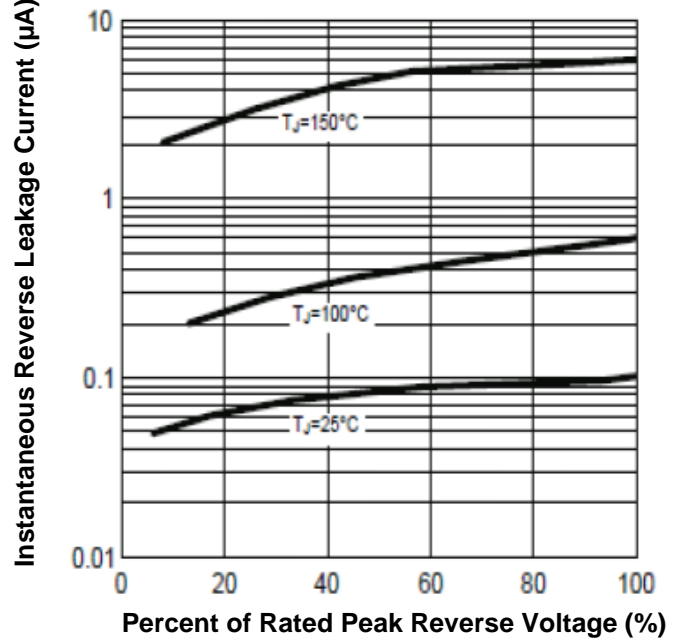
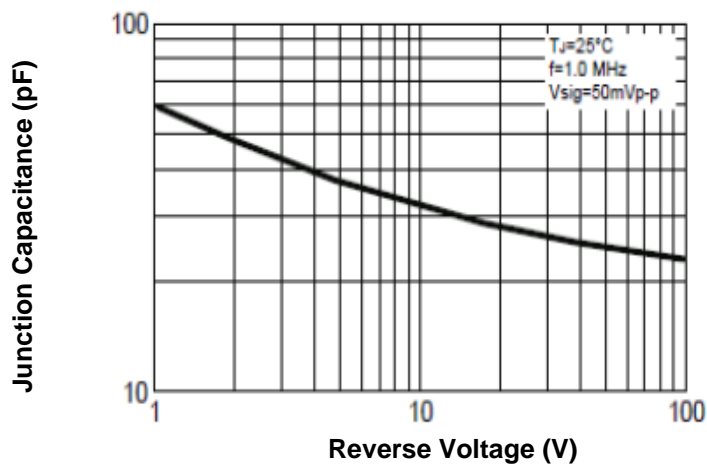
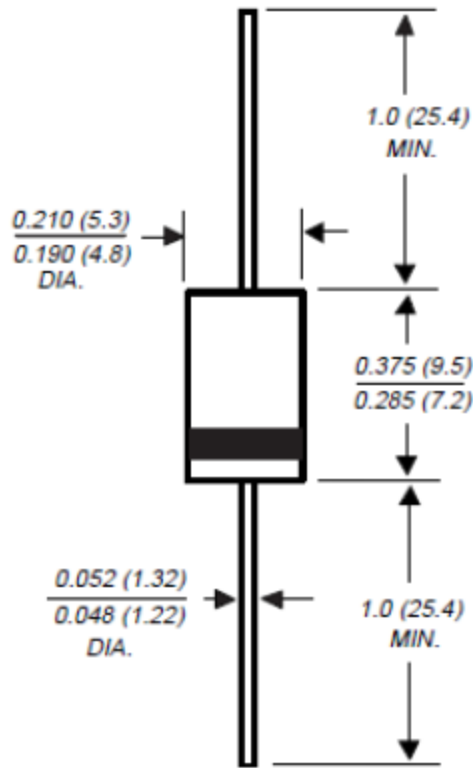


Fig.5- Typical Junction Capacitance



Dimensions in inch (mm)



DO-201AD

Order Information

Part # to order	Manufacturer	Outline	Packing	RoHS Status
1N5624GP/4-GSI-T30	General Semiconductor	DO-201AD	13" Tape and Reel	NO
1N5625GP/4-GSI-T30	General Semiconductor	DO-201AD	13" Tape and Reel	NO
1N5627GP/4-GSI-T30	General Semiconductor	DO-201AD	13" Tape and Reel	NO

How to contact us

USA 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

Http://www.taitroncomponents.com

TAITRON COMPONENTS INCORPORATED TAIWAN BRANCH

6F., NO.190, SEC. 2, ZHONGXING RD., XINDIAN DIST., NEW TAIPEI CITY 23146, TAIWAN R.O.C.

Tel: 886-2-2913-6238

Fax: 886-2-2913-6239

TAITRON COMPONENT TECHNOLOG SHANGHAI CORPORATION

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

Tel: +86-21-5424-9942

Fax: +86-21-2302-5027