

Glass Passivated Junction Rectifier (Discontinued)

Features

- High temperature metallurgically bonded construction
- Hermetically sealed package
- 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



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Mechanical Data

Case:	Solid 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, 1.1 gram

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

Symbol	Description	1N5625	1N5626	1N5627	Unit	Conditions
VRRM	*Maximum Repetitive Peak Reverse Voltage	400	600	800	V	
VRMS	Maximum RMS Voltage	280	420	560	V	
VDC	*Maximum DC Blocking Voltage	400	600	800	V	
IF(AV)	*Maximum Average Forward Rectified Current	3.0			A	0.375" (9.5 mm) lead length at $T_A=70^{\circ}\text{C}$
IFSM	*Peak Forward Surge Current	125.0			A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
VF	*Maximum Instantaneous Forward Voltage	1.0			V	IF=3.0A, $T_A=25^{\circ}\text{C}$
		0.95				IF=3.0A, $T_A=70^{\circ}\text{C}$

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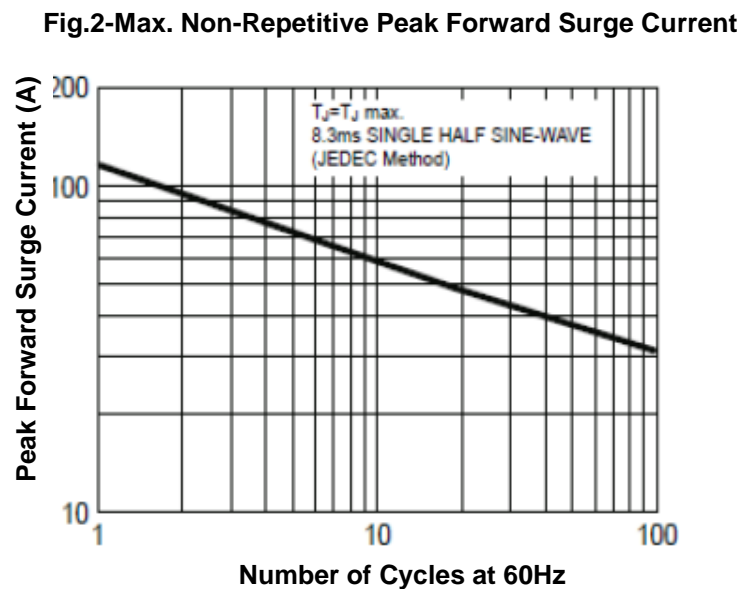
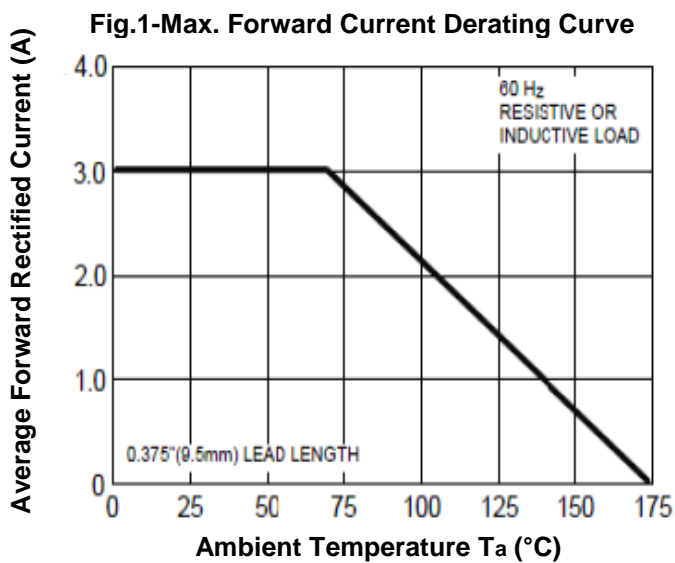
Symbol	Description	1N5625	1N5626	1N5627	Unit	Conditions
IR(AV)	*Maximum Full Load Reverse Current, Full Cycle Average	150.0	100.0	100.0	μA	0.375" (9.5 mm) lead length at TA=70 °C
IR	*Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0			μA	TA=25°C
		300.0	200.0	200.0		TA=175°C
CJ	Typical Junction Capacitance	40.0			pF	Note 1
RthJA	Typical Thermal Resistance	20.0			°C / W	Note 2
RthJL		10.0				
TJ, TSTG	Operating Junction and Storage Temperature Range	-65 to +175			°C	

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V
2. Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted.

*JEDEC Registered Values

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



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Fig.3- Typical Instantaneous Forward Characteristics

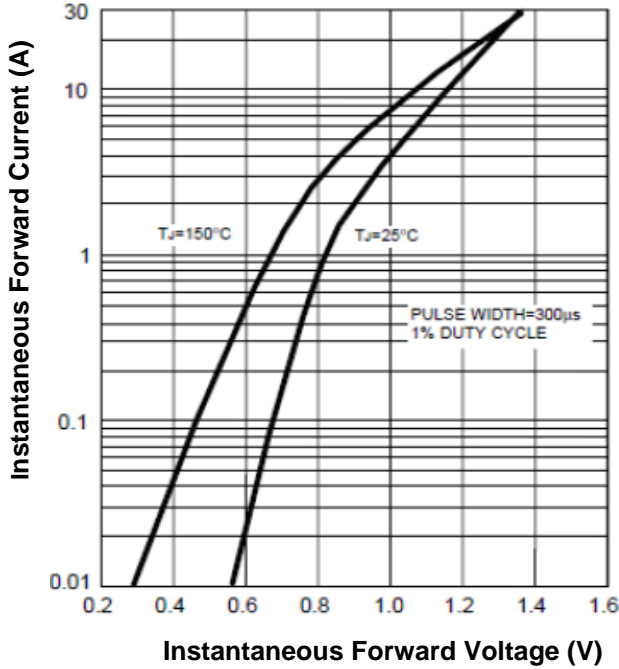


Fig.4-Typical Reverse Characteristics

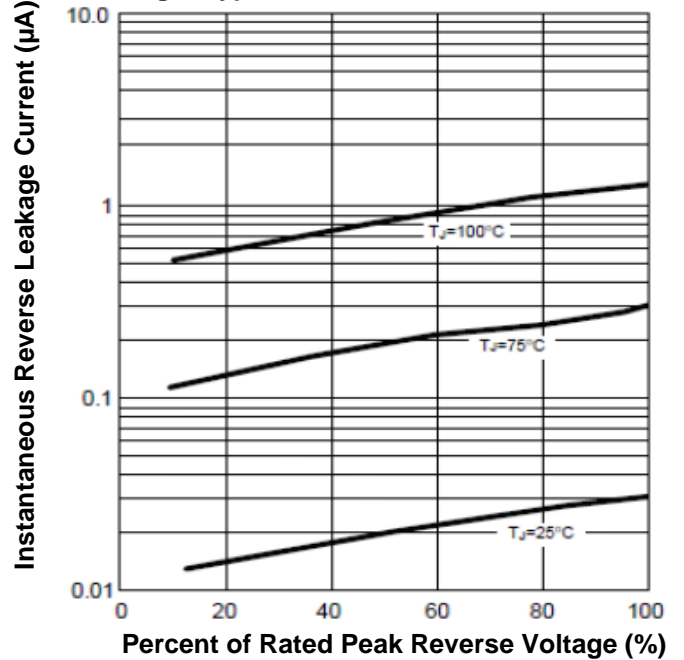
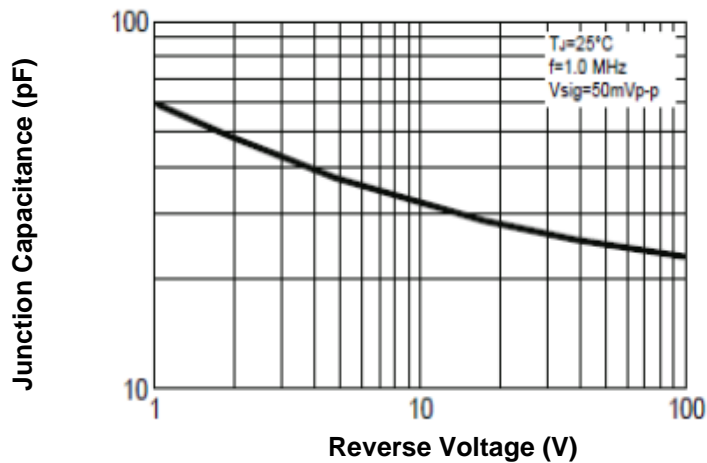
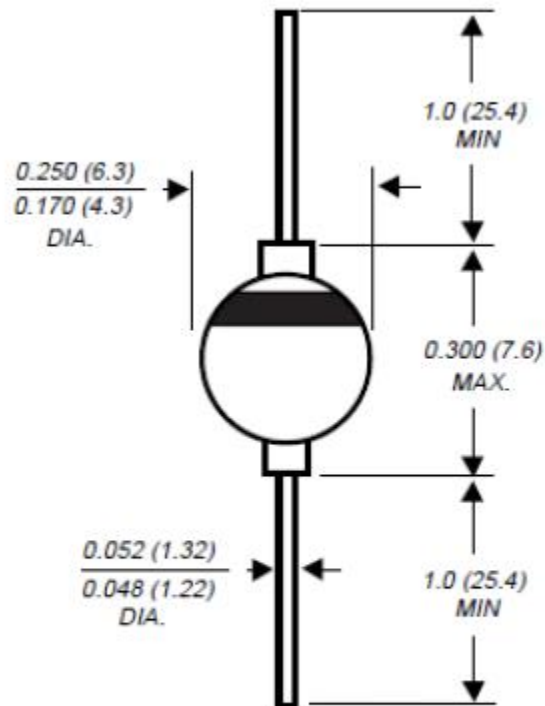


Fig.5- Typical Junction Capacitance



Dimensions in inch (mm)



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Order Information

Part # to order	Manufacturer	Outline	Packing	RoHS Status
1N5625/1-GSI-B	General Semiconductor	G3	Bulk	NO
1N5625/4-GSI-T30	General Semiconductor	G3	13" Tape and Reel	NO
1N5626/1-GSI-B	General Semiconductor	G3	Bulk	NO
1N5626/4-GSI-T30	General Semiconductor	G3	13" Tape and Reel	NO
1N5627/1-GSI-B	General Semiconductor	G3	Bulk	NO
1N5627/4-GSI-T30	General Semiconductor	G3	13" Tape and Reel	NO

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