

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
- 1.0 Ampere operation at TA=100°C with no thermal runaway
- Glass passivated cavity-free junction
- High temperature soldering guaranteed:
350°C/10 seconds, .037" (9.5mm) lead length,
5lbs (2.3kg) tension



DO-204AC

Mechanical Data

Case:	JEDEC DO-204AC 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:	0.015 ounce, 0.4 gram

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

Symbol	Description	1N4383 GP	1N4384 GP	1N4385 GP	1N4585 GP	1N4586 GP	Unit	Conditions
VRRM	*Maximum Repetitive Peak Reverse Voltage	200	400	600	800	1000	V	
VRMS	*Maximum RMS Voltage	140	280	420	560	700	V	
VDC	Maximum DC Blocking Voltage	200	400	600	800	1000	V	
IF(AV)	*Maximum Average Forward Rectified Current	1.0					A	0.375" (9.5 mm) lead length at TA=100 °C
IFSM	*Peak Forward Surge Current	50					A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at TA=100 °C
VF	Maximum Instantaneous Forward Voltage	1.0					V	IF=1.0A

General Semiconductor

Symbol	Description	1N4383 GP	1N4384 GP	1N4385 GP	1N4585 GP	1N4586 GP	Unit	Conditions
IR(AV)	*Maximum Full Load Reverse Current, Full Cycle Average	275	250	225	200	200	μA	0.375" (9.5 mm) lead length at TA=75 °C
IR	*Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0					μA	TA=25°C
		250.0						TA=150°C
Trr	Typical Reverse Recovery Time	2.0					μs	Note 1
CJ	Typical Junction Capacitance	15.0					pF	Note 2
RthJA	Typical Thermal Resistance	45.0					°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 and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted.

*JEDEC Registered Values

Typical Characteristics Curves ($T_A=25^\circ C$ unless noted otherwise)

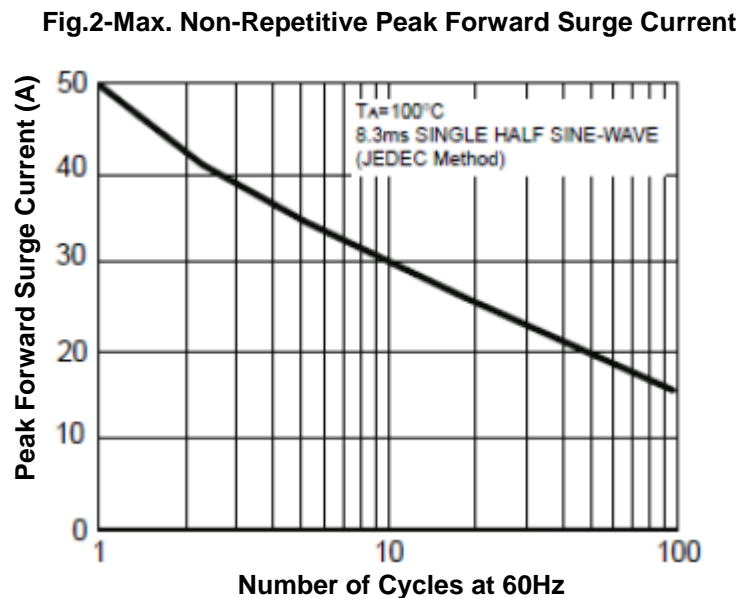
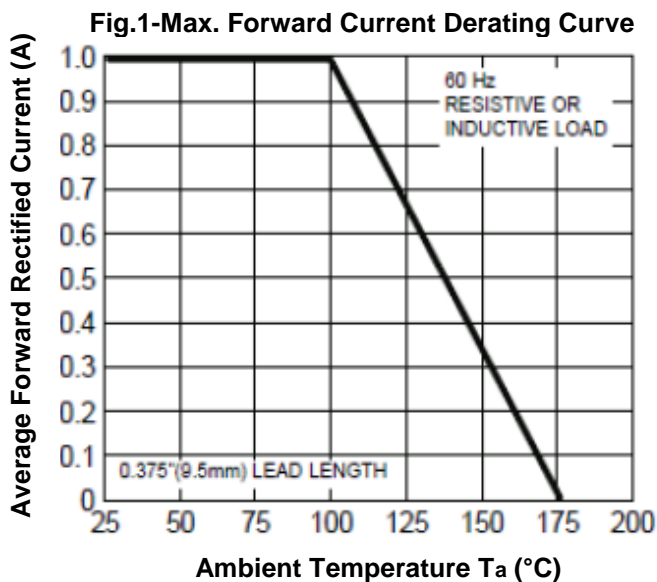


Fig.3- Typical Instantaneous Forward Characteristics

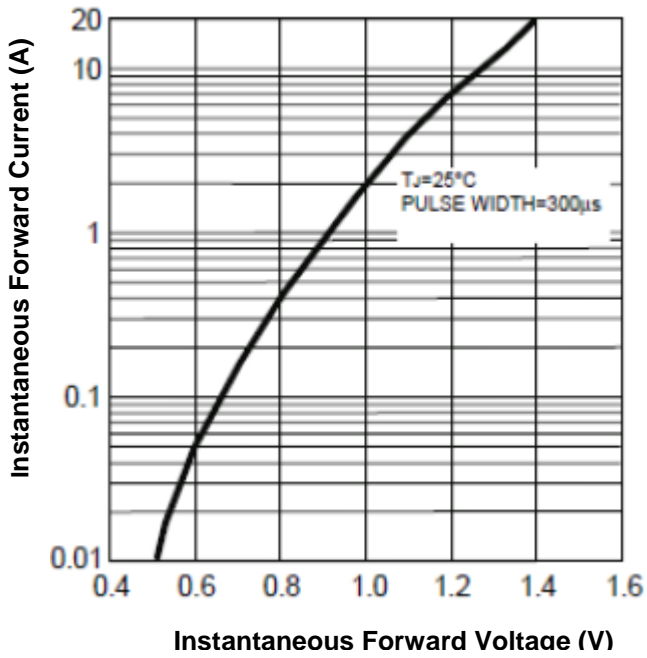


Fig.4-Typical Reverse Characteristics

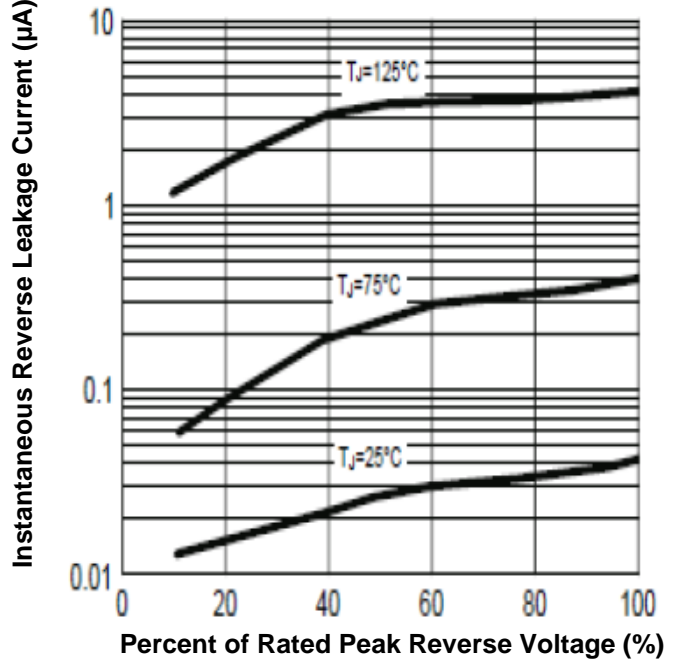


Fig.5- Typical Junction Capacitance

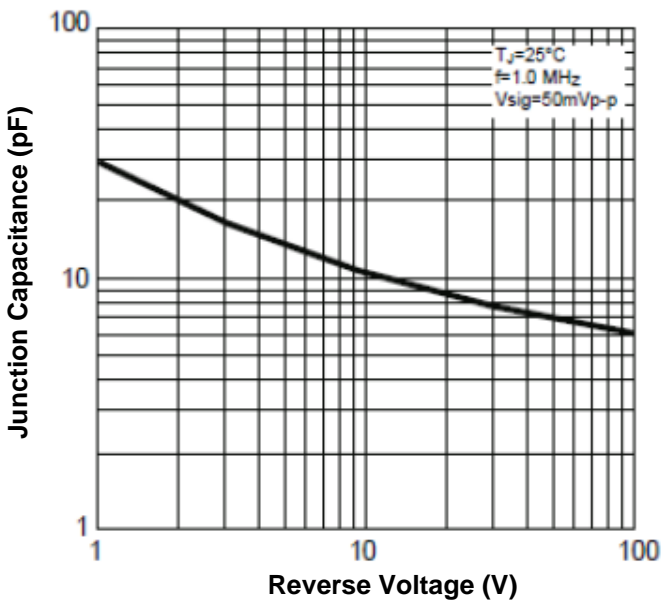
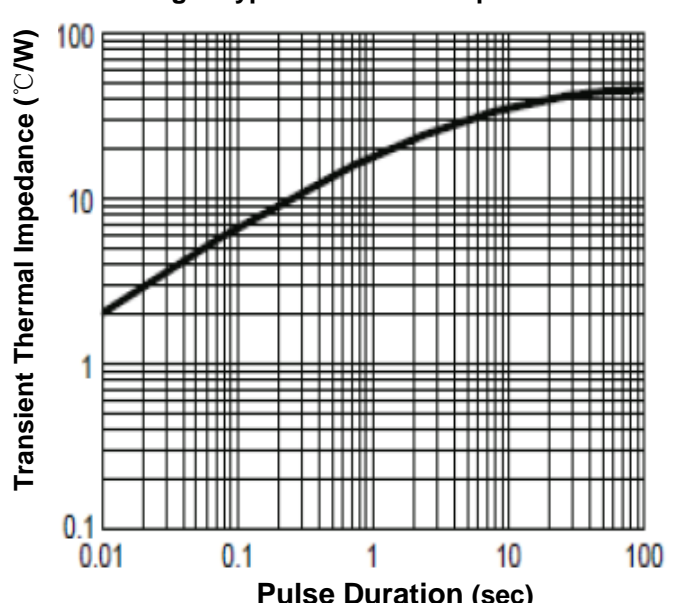
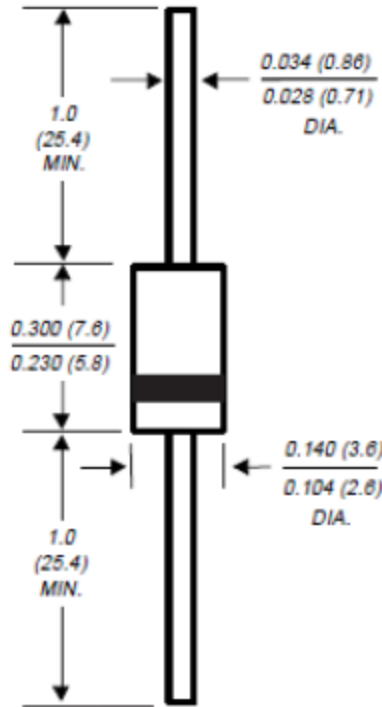


Fig.6-Typical Transient Impedance



Dimensions in inch (mm)



DO-204AC

Order Information

Part # to order	Manufacturer	Outline	Packing	RoHS Status
1N4383GP/4-GSI-T30	General Semiconductor	DO-204AC	13" Tape and Reel	NO
1N4384GP/4-GSI-T30	General Semiconductor	DO-204AC	13" Tape and Reel	NO
1N4385GP/4-GSI-T30	General Semiconductor	DO-204AC	13" Tape and Reel	NO
1N4585GP/4-GSI-T30	General Semiconductor	DO-204AC	13" Tape and Reel	NO
1N4586GP/4-GSI-T30	General Semiconductor	DO-204AC	13" Tape and Reel	NO

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