

Surface Mount Glass Passivated Junction Rectifier (Discontinued)

Features

- Plastic package has Underwriters Laboratory Flammability 94V-0
- For surface mount applications
- High temperature metallurgically bonded construction
- Capable of meeting environmental standards of MIL-S-19500
- Glass passivated cavity-free junction
- High temperature soldering guaranteed:
450°C/5 seconds at terminals
Complete device submersible temperature of 265°C for 10 seconds in solder bath



DO-213AB

Mechanical Data

Case:	JEDEC DO-213AB molded plastic over glass body
Terminals:	Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity:	Two band indicate cathode end – 1st band denotes device type and 2nd band denotes repetitive peak reverse voltage rating
Mounting Position:	Any
Weight:	0.0046 ounce, 0.116 gram

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

Symbol	Description	1N6482	1N6483	1N6484	Unit	Conditions
	Standard recovery time device: 1 st band is white, Polarity color bands (2 nd band)	Green	Blue	Violet		
VRRM	*Maximum Repetitive Peak Reverse Voltage	600	800	1000	V	
VRMS	Maximum RMS Voltage	420	560	700	V	
VDC	*Maximum DC Blocking Voltage	600	800	1000	V	
IF(AV)	*Maximum Average Forward Rectified Current	1.0			A	
IFSM	*Peak Forward Surge Current	30.0			A	8.3ms single half sine-wave superimposed on rated load at $T_A=75^\circ\text{C}$ (JEDEC Method)

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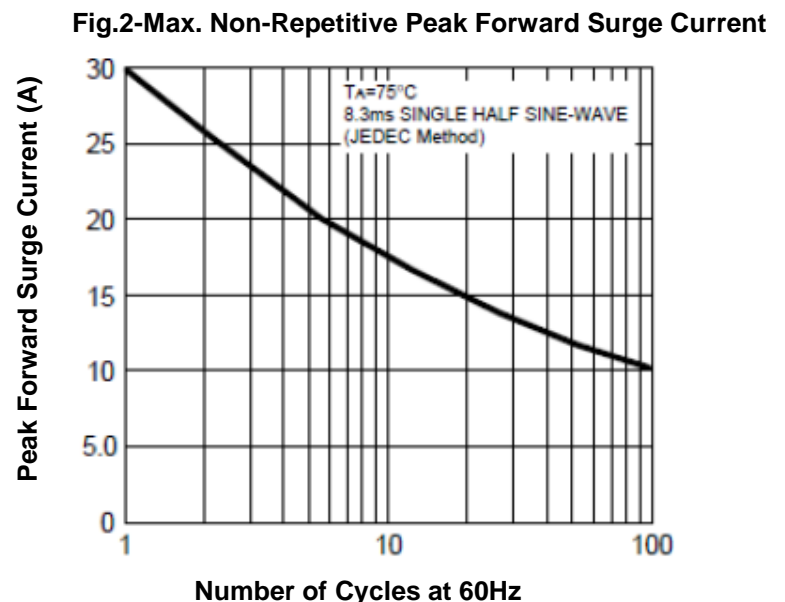
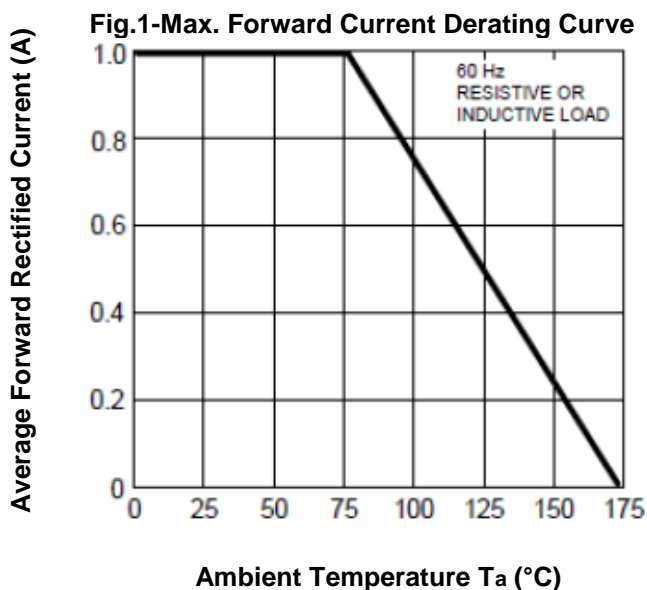
Symbol	Description	1N6482	1N6483	1N6484	Unit	Conditions
V_F	*Maximum Instantaneous Forward Voltage	1.1			V	IF=1.0A, TA=25 °C
		1.0				IF=1.0A, TA=75 °C
I_{R(AV)}	*Maximum Full Load Reverse Current, Full Cycle Average	100.0			μA	TA=75 °C
I_R	*Maximum DC Reverse Current at Rated DC Blocking Voltage	10.0			μA	TA=25°C
		200.0				TA=125°C
C_J	Typical Junction Capacitance	8.0			pF	Note 1
R_{thJA}	Typical Thermal Resistance	50.0			°C / W	Note 2
R_{thJT}		20.0				Note 3
T_J, T_{STG}	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, 0.24x0.24" (6.0x6.0) copper pads to each terminal
3. Thermal resistance from junction to terminal, 0.24x0.24" (6.0x6.0) copper pads to each terminal

*JEDEC Registered Values

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



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Fig.3- Typical Instantaneous Forward Characteristics

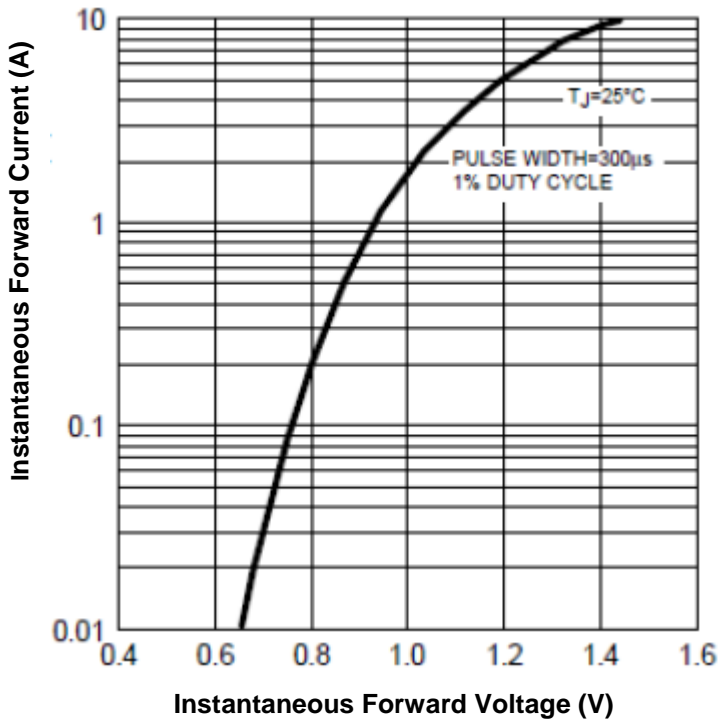


Fig.4-Typical Reverse Characteristics

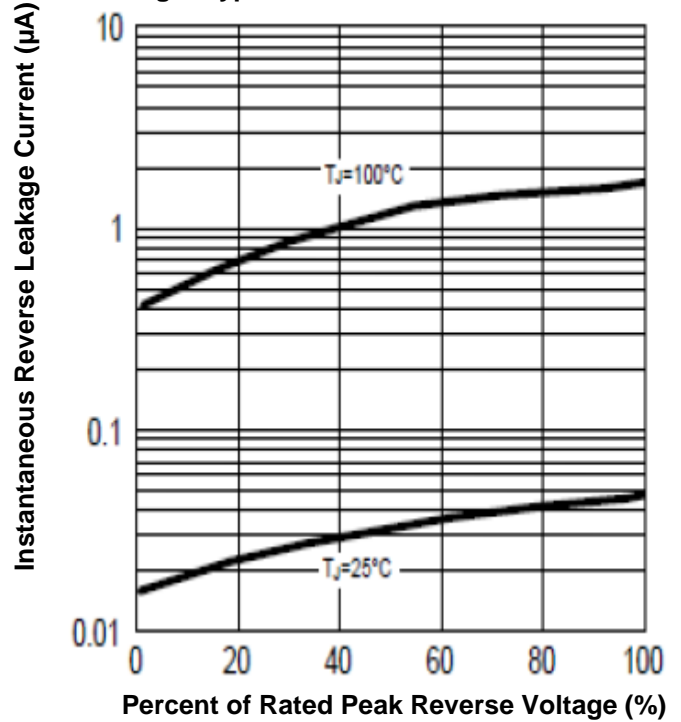


Fig.5- Typical Junction Capacitance

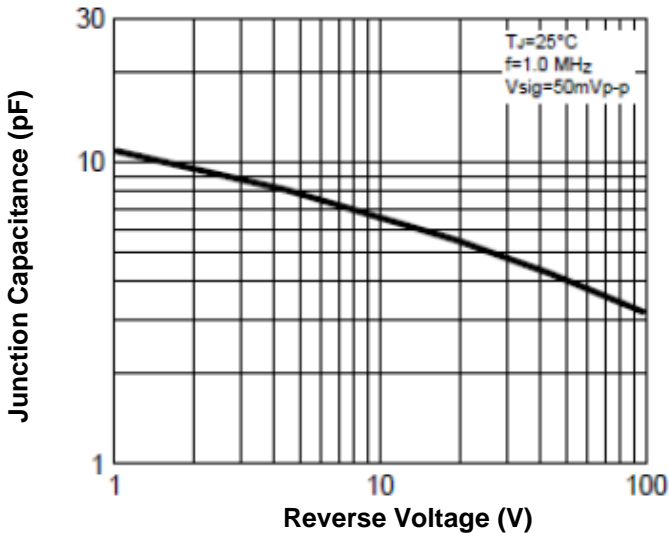
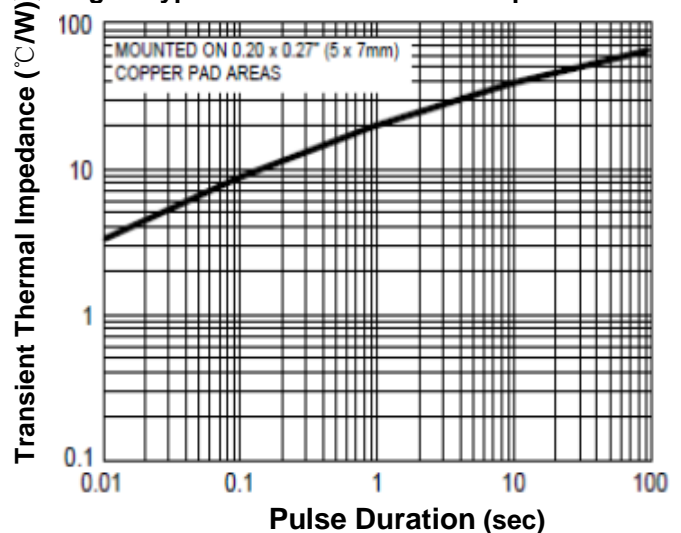
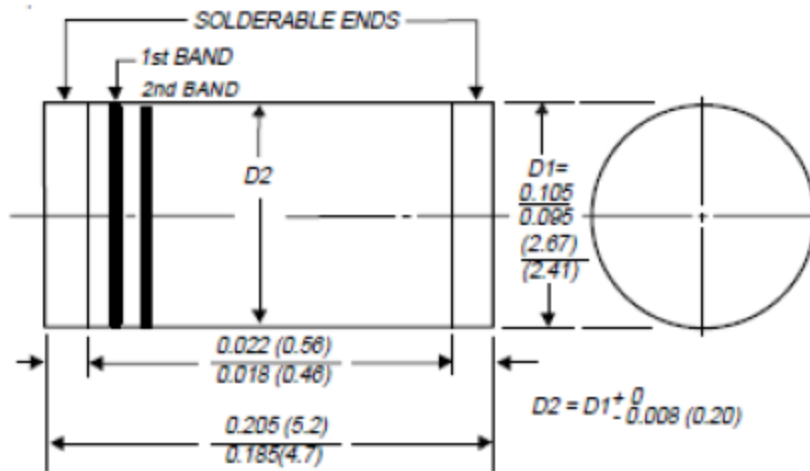


Fig. 6-Typical Transient Thermal Impedance



Dimensions in inch (mm)



1st band denotes type and positive end (cathode)
 2nd band denotes voltage type

DD-213AB

Order Information

Part # to order	Manufacturer	Outline	Packing	RoHS Status
1N6482/25-GSI-T70	General Semiconductor	DO-213AB	7" Tape and Reel	NO
1N6483/25-GSI-T70	General Semiconductor	DO-213AB	7" Tape and Reel	NO
1N6484/25-GSI-T70	General Semiconductor	DO-213AB	7" Tape and Reel	NO

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