Glass Passivated Rectifier Diodes VRRM - 600 Volts & 1000 Volts, 3A



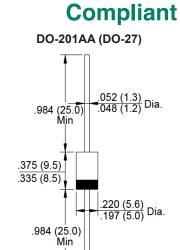


Features

- Low cost
- Fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Meet UL flammability classification 94V-0
- Lead free
- Case style: DO-201AA (DO-27) molded plastic

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.



RoHS

Dimensions: Inches (Millimetres)

Characteristics	Symbol	FR305G	FR307G	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	600	1000	V
Maximum RMS Voltage	VRMS	420	700	
Maximum DC Blocking Voltage	VDC	600	1000	
Maximum Average Forward Rectified Current @ TA = 55°C	I(AV)	3		А
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	lғsм	125		А
Peak Forward Voltage at 3A DC (Note1)	VF	1.3		V
Max. DC Reverse Current @ TJ=25°C Rated DC Blocking Voltage @ TJ=100°C	lR	5 100		μΑ
Maximum Reverse Recovery Time (Note 2)	Trr	250	500	nS
Typical Junction Capacitance (Note 3)	CJ	40		pF
Typical Thermal Resistance Junction to Ambient	RөJA	15		°C/W
Operating Junction Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	Тѕтс			

Notes:

- 1. 300µS pulse width, 2%duty cycle
- 2. Measured with IF = 0.5A, IR = 1A, IRR = 0.25A
- 3. Measured at 1.0 MHz and applied reverse voltage of 4V DC
- 4. The typical data above is for reference only

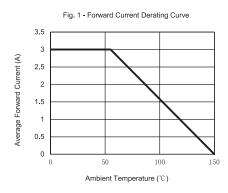
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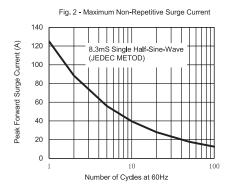


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Rating and Characteristic Curves





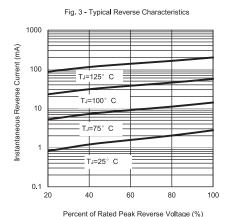
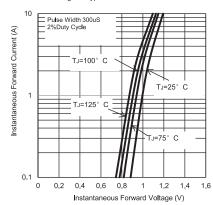
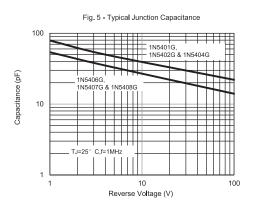


Fig. 4 - Typical Forward Characteristics





Part Number Table

Description	Part Number	
Rectifier Diode, 600V, 3A, DO-201AA (DO-27)	FR305G	
Rectifier Diode, 1kV, 3A, DO-201AA (DO-27)	FR307G	

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