## **Super Fast Recovery Rectifier Diodes** VRRM - 100 Volts to 600 Volts, 3A





### **Features**

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

## **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified.

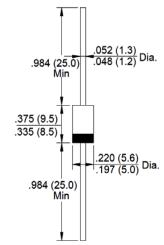
Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

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# RoHS **Compliant**





Dimensions: Inches (Millimetres)

Characteristics	Symbol	SF32G	SF36G	SF38G	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	100	400	600	
Maximum RMS Voltage	VRMS	70	280	420	V
Maximum DC Blocking Voltage	VDC	100	400	600	
Maximum Average Forward Rectified Current @ T <sub>A</sub> = 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	0.95	1.3	1.7	V
Max. DC Reverse Current @ T <sub>J</sub> =25°C Rated DC Blocking Voltage @ T <sub>J</sub> =100°C	lr	5 100			μA
Maximum Reverse Recovery Time (Note 2)	Trr	35			nS
Typical Junction Capacitance (Note 3)	CJ	70 45		5	pF
Typical Thermal Resistance Junction to Ambient	Reja	20		,	°C/W
Operating Junction Temperature Range	TJ	-65 to +150		°C	
Storage Temperature Range	Тѕтс				

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

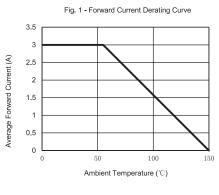
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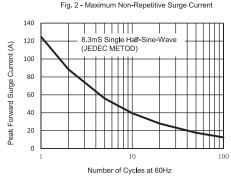


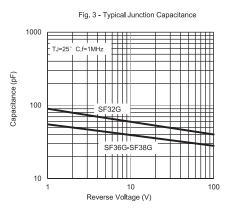
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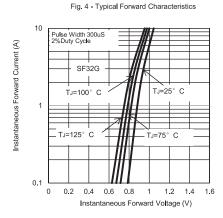


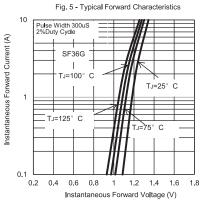
## **Rating and Characteristic Curves**

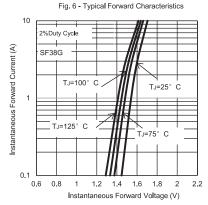












## **Part Number Table**

Description	Part Number	
Rectifier Diode, Super Fast, 100V, 3A, DO-201AA (DO-27)	SF32G	
Rectifier Diode, Super Fast, 400V, 3A, DO-201AA (DO-27)	SF36G	
Rectifier Diode, Super Fast, 600V, 3A, DO-201AA (DO-27)	SF38G	

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