SF11G~SF18G

Glass Passivates Superfast Rectifiers

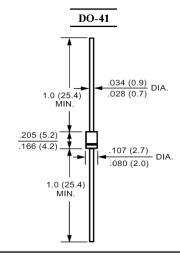
Reverse Voltage - 50 to 600 V Forward Current - 1 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- · High surge capability
- · Low forward voltage, high current capability
- · Hermetically sealed
- · Super-fast recovery times
- · Low leakage

Mechanical Data

- · Case: DO-41 molded plastic
- Terminals: Axial Leads, solderable per MIL-STD-202, method 208 guaranteed
- · Polarity: Colored band denotes cathode end
- Mounting position: Any



Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

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

Parameter		SF11G	SF12G	SF13G	SF14G	SF15G	SF16G	SF18G	Unit
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length at T _A = 55°C	I _{F(AV)}	1			Α				
Peak Forward Surge Current 8.3 ms Single Half Sine -wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30			Α				
Maximum Forward Voltage at 1 A	V _F		0.	95		1.:	25	1.7	V
Maximum Reverse Current Rated DC at $T_J = 25^{\circ}\text{C}$ Blocking Voltage at $T_J = 100^{\circ}\text{C}$	I _R	5 50			μA				
Maximum Reverse Recovery Time 1)	ximum Reverse Recovery Time 1) t _{rr} 35			ns					
Typical Junction Capacitance 2)	CJ	50 25			pF				
Typical Thermal Resistance 3)	R _{0JA}	60			°C/W				
Operating Junction and Storage Temperature Range		- 55 to + 150				°C			

 $^{^{1)}}$ Reverse recovery test conditions: I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A.

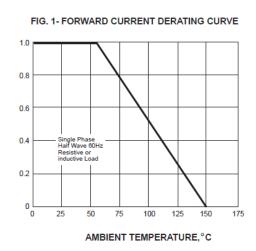


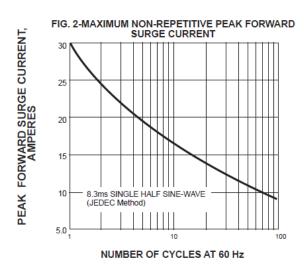
 $^{^{\}rm 2)}{\rm Measured}$ at 1.0 MHz and applied reverse voltage of 4 V.

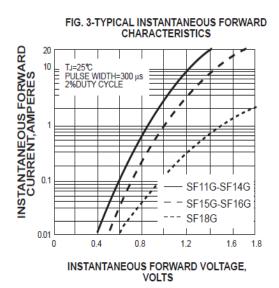
³⁾ Thermal resistance from junction to ambient 0.375" (9.5 mm) lead length P.C.B mounted.

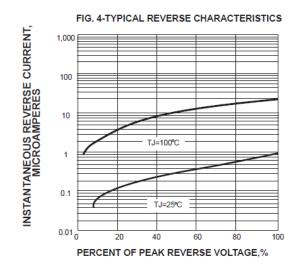
Electrical Characteristics Curves

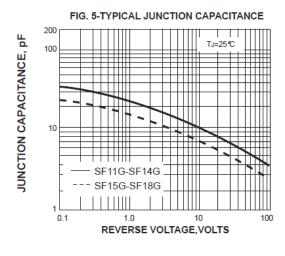
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

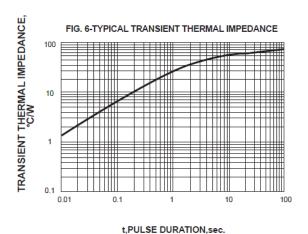














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Marking information

" **SF**G** " = Part No.

Туре	Marking	Туре	Marking
SF11G	SF11G	SF12G	SF12G
SF13G	SF13G	SF14G	SF14G
SF15G	SF15G	SF16G	SF16G
SF18G	SF18G		

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