

SF21G THRU SF28G

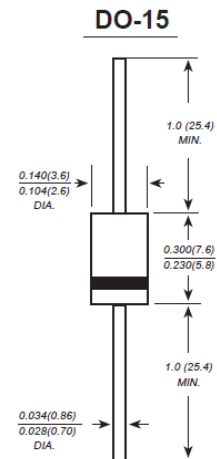
Ultra Fast Glass Passivated Rectifiers

Reverse Voltage - 50 to 600 V

Forward Current - 2 A

Features

- Glass passivated process
- Low reverse leakage
- Super fast switching for high efficiency
- High forward surge current capability



Dimensions in inches and millimeters

Absolute Maximum Ratings and Characteristics

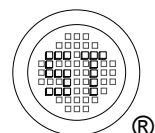
Rating at 25°C ambient temperature unless otherwise specified. Single-phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	SF21G	SF22G	SF23G	SF24G	SF25G	SF26G	SF27G	SF28G	Units
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	500	600	V
RMS Voltage	V_{RMS}	35	70	105	140	210	280	350	420	V
DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	500	600	V
Average Forward Rectified Current 0.375" (9.5 mm) Lead Length at $T_A = 55^\circ\text{C}$	$I_{F(AV)}$	2								A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50								A
Instantaneous Forward Voltage at 2 A	V_F	0.95			1.25		1.7			V
DC Reverse Current at Rated DC Blocking Voltage	I_R	5								μA
		50								
Reverse Recovery Time ¹⁾	T_{rr}	35								ns
Typical Junction Capacitance ²⁾	C_J	60			30					pF
Typical Thermal Resistance ³⁾	$R_{\theta JA}$	50								$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_j	- 55 to + 150								$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150								$^\circ\text{C}$

¹⁾ Reverse recovery test conditions: $I_F = 0.5 \text{ A}$, $I_R = 1 \text{ A}$, $I_{RR} = 0.25 \text{ A}$.

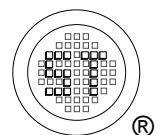
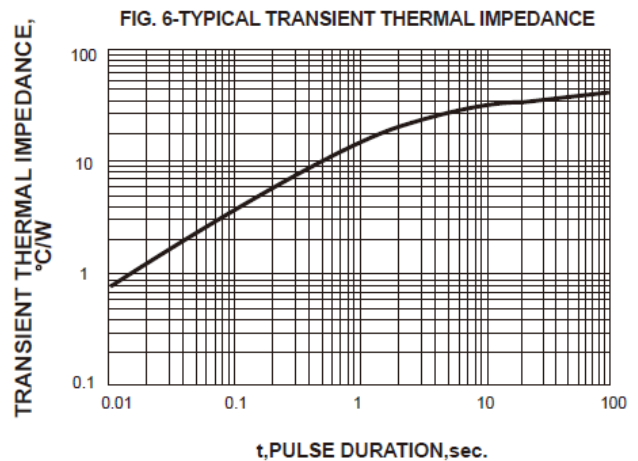
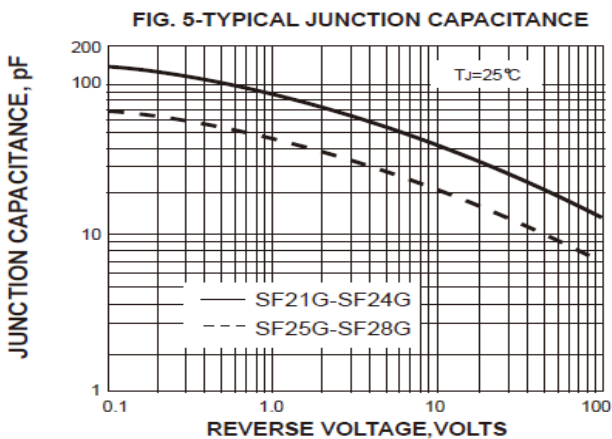
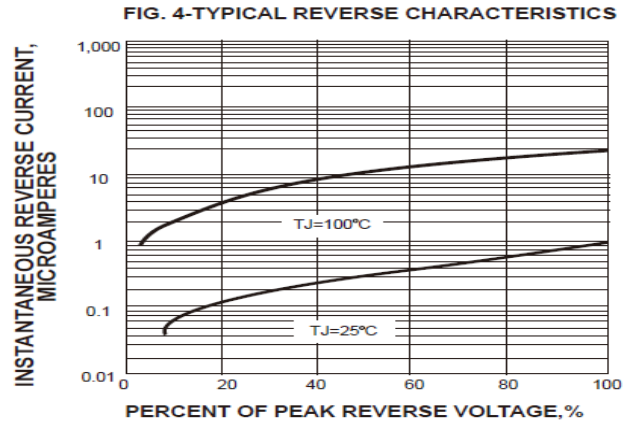
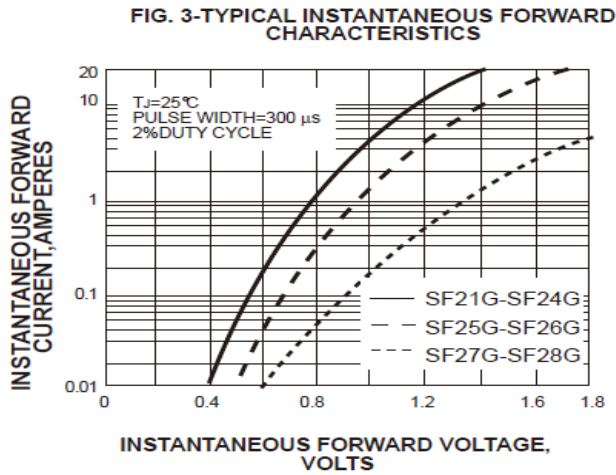
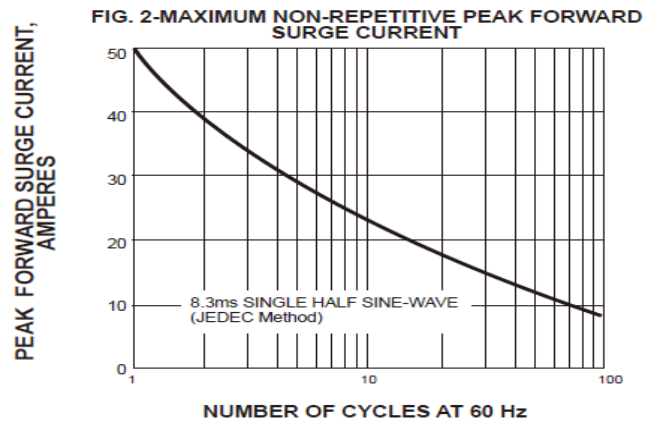
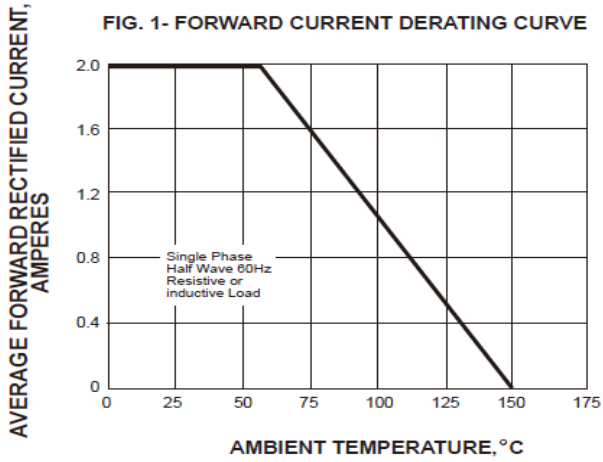
²⁾ Measured at 1 MHz and applied reverse voltage of 4 V.

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



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Electrical Characteristics Curves



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Marking information

" SF**G " = Part No.

Font type: Arial

