

Features

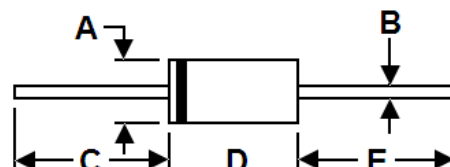
- * High efficiency, Low VF
- * High Current Capability
- * High Reliability
- * High Surge Current Capability
- * Low Power Loss



RoHS
COMPLIANT

Package Outline Dimensions

DO-15:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2.6	3.6	0.102	0.142
B	0.7	0.9	0.027	0.035
C	25.4	-	1.0	-
D	5.8	7.6	0.228	0.300
E	25.4	-	1.0	-

Mechanical Data

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any

Maximum Ratings and Electrical 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%.

Type Number	Symbol	SF 21G	SF 22G	SF 23G	SF 24G	SF 25G	SF 26G	SF 27G	SF 28G	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	500	600	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	350	420	V
Maximum D.C Blocking Voltage	V _{DC}	50	100	150	200	300	400	500	600	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2.0								A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	50								A
Maximum Instantaneous Forward Voltage at 2.0A	V _F	0.95				1.25		1.7		V
Maximum reverse current @ rated VR T _J =25℃ T _J =125℃	I _R	5.0 100								μ A
Maximum Reverse Recovery Time(Note1)	T _{rr}	35								nS
Typical Junction Capacitance(Note2)	C _J	40				20				pF
Typical Thermal Resistance	RθJC RθJA	16 65								℃/W
Operating Junction and Storage Temperature Range	T _J /T _{STG}	-55 to +150								℃

Note:1、 Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$. 2、 Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.

Ratings and Characteristic Curves

FIG. 1- MAXIMUM AVERAGE FORWARD CURRENT DERATING

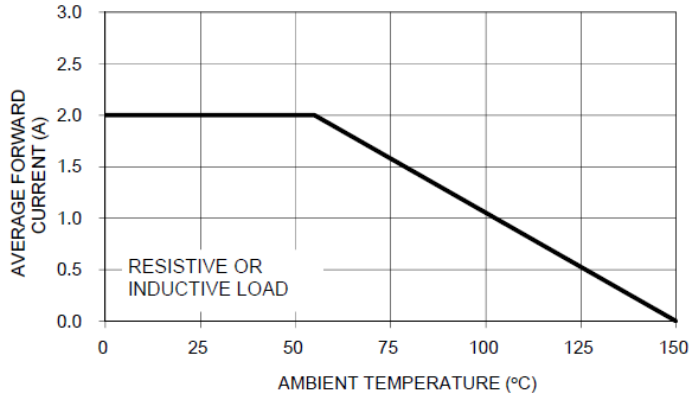


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

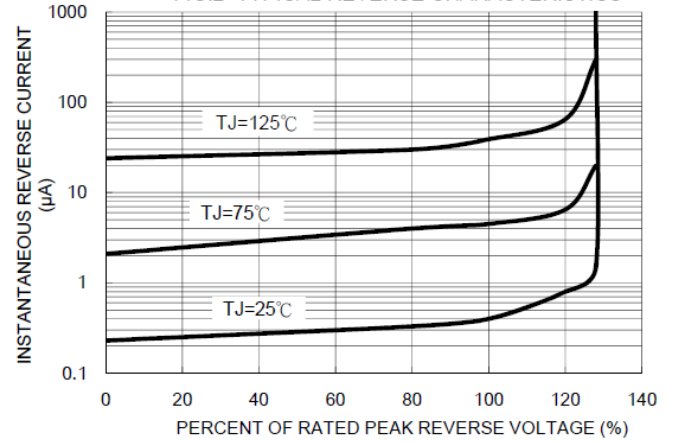


FIG. 3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

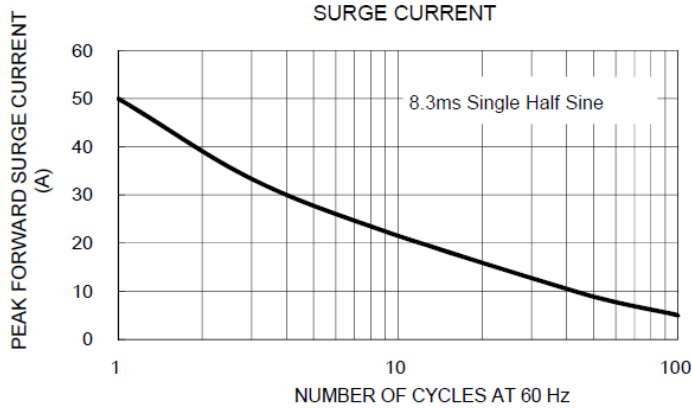


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

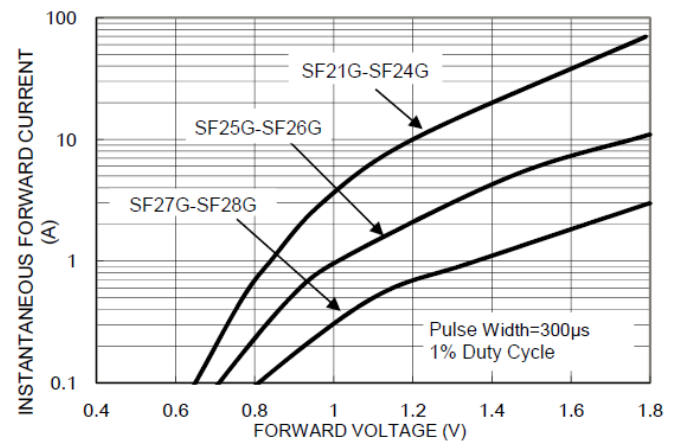


FIG. 4- TYPICAL JUNCTION CAPACITANCE

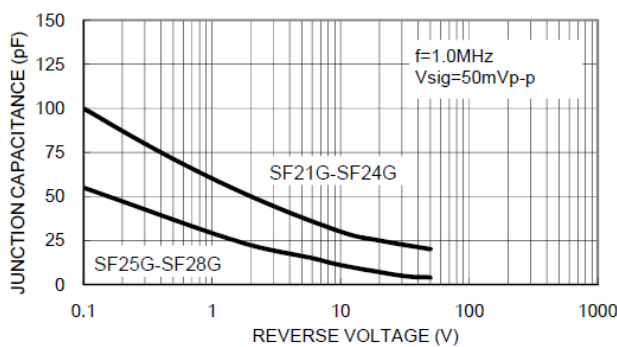
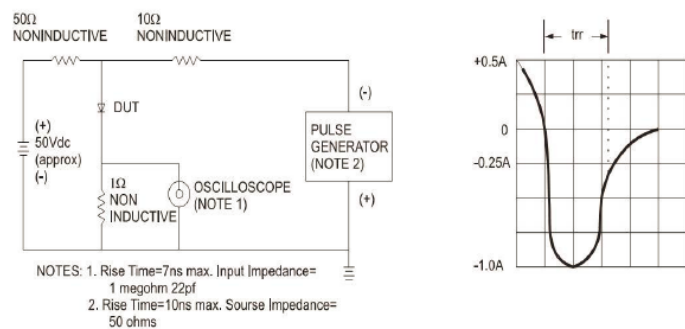


FIG. 6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





SF21G THRU SF28G
2.0 Amps. Glass Passivated Super Fast Rectifiers

Ordering Information

Part No.	Package	Packing
SF21G~SF28G	DO-15	2K/AMMO box
SF21G~SF28G	DO-15	3K/AMMO box
SF21G~SF28G	DO-15	4K/13" Paper reel
SF21G~SF28G	DO-15	0.5K/Bulk packing