

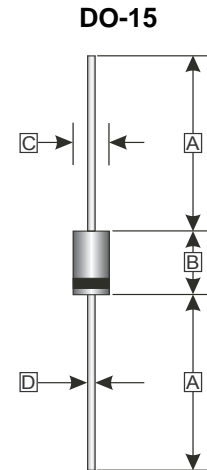
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

PACKAGING INFORMATION

- Glass Passivated
- 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
- Weight: 0.4300 grams (approximately)



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	5.80	7.62
C	2.60	3.60
D	-	0.90

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

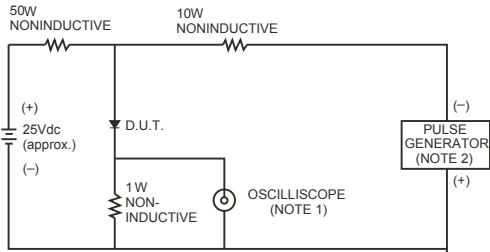
PARAMETERS	Symbol	Part Number					Unit
		SF21G	SF22G	SF23G	SF24G	SF25G	
Maximum Recurrent Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	V
Maximum Instantaneous Forward Voltage @ $I_F=2A$	V_F	0.95			1.3	1.7	V
Maximum Average Forward Rectified Current @ 0.375" (9.5mm) lead length $T_A=55^\circ C$	I_O	2.0					A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50					A
Maximum DC Reverse Current	I_R	$T_A=25^\circ C$	5.0				μA
		$T_A=100^\circ C$	50				
Maximum Reverse Recovery Time ¹	T_{RR}	35					nS
Junction Capacitance (Typ.) ²	C_J	60					pF
Storage Temperature Range	T_{STG}	-65 ~ 150					°C

Note:

1. $I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$
2. $f=1MHz$ and applied 4V DC reverse voltage

RATINGS AND CHARACTERISTIC CURVES (SF21G THRU SF25G)

FIG.1- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.
2. Rise Time= 10ns max., Source Impedance= 50 ohms.

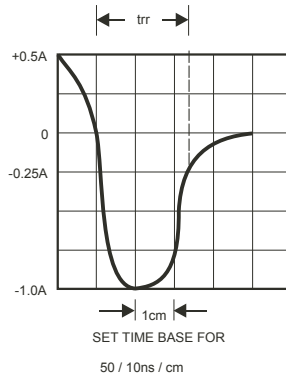


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

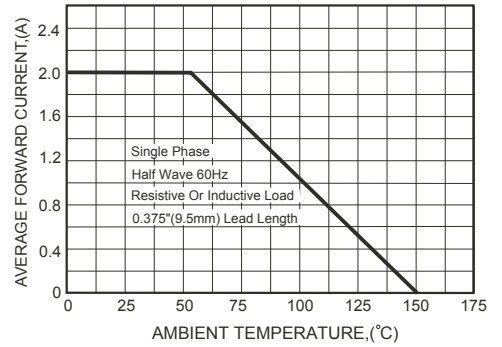


FIG.3-TYPICAL FORWARD CHARACTERISTICS

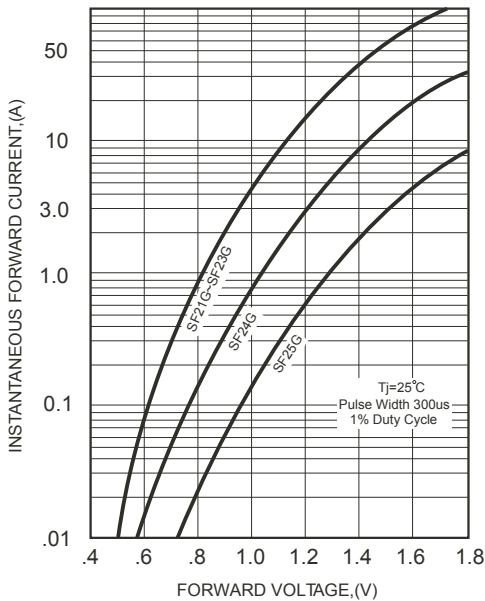


FIG.4-TYPICAL REVERSE CHARACTERISTICS

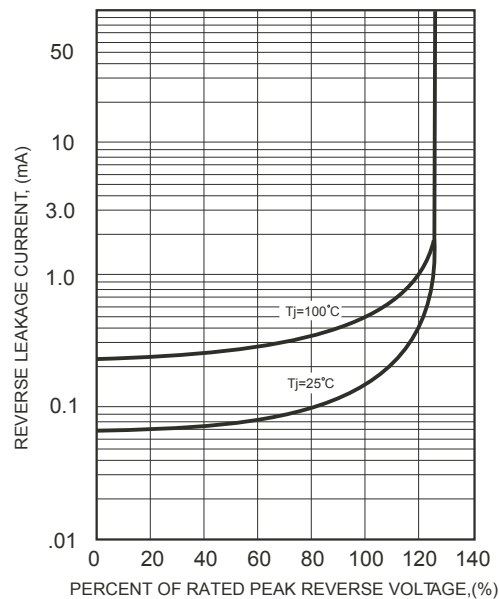


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

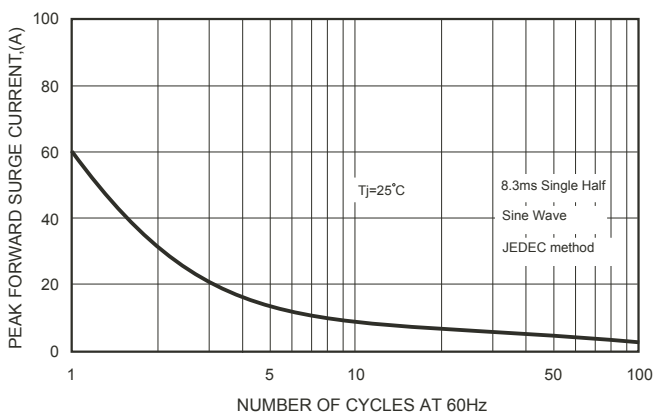


FIG.6-TYPICAL JUNCTION CAPACITANCE

