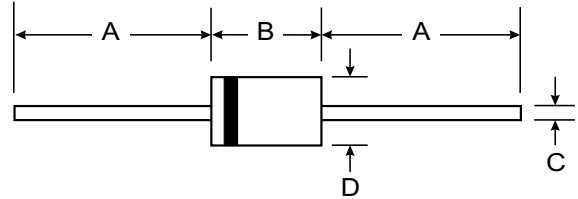


**INACTIVE, NOT
FOR NEW DESIGN,
USE SF20AG - SG20JG**

Features

- Low Leakage Current
- Low Forward Voltage Drop
- High Current Capability
- Super-fast Switching Speed < 35ns
- Plastic Material - UL Flammability Rating 94V-0



Mechanical Data

- Case: DO-15, Molded Plastic
- Terminals: Plated Axial Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Approx. Weight: 0.4 grams

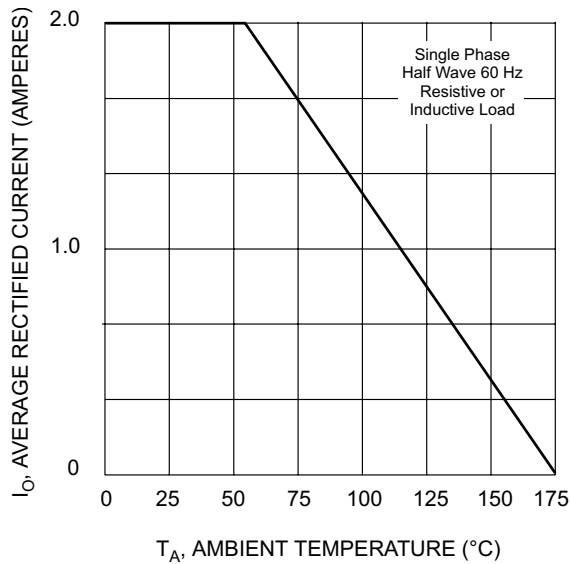
DO-15		
Dim	Min	Max
A	25.40	—
B	5.50	7.62
C	0.686	0.889
D	2.60	3.60
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

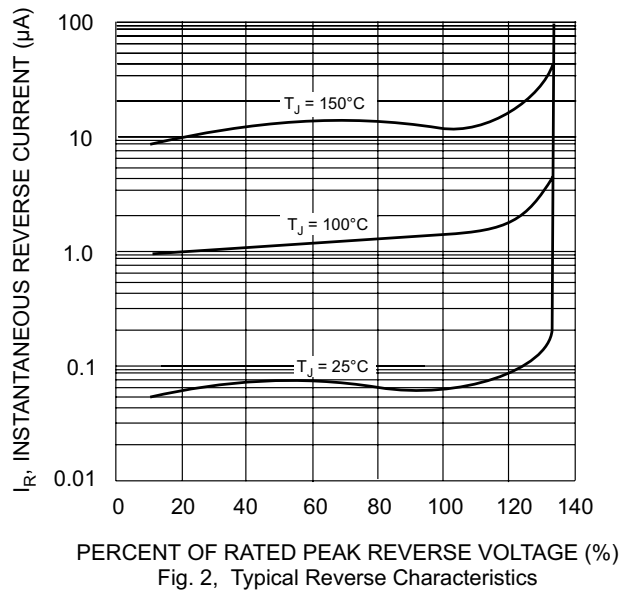
Single phase, halfwave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	SF21	SF22	SF23	SF24	Unit
Peak Repetitive Reverse Voltage	V _{RRM}					
Working Peak Reverse Voltage	V _{RWM}	50	100	150	200	V
DC Blocking Voltage	V _R					
Maximum RMS Voltage	V _{R(RMS)}	35	70	105	140	V
Average Rectified Output Current @ T _L =55°C	I _O	2.0				A
Non-Repetitive Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50				A
Forward Voltage @ I _F =2.0	V _F	0.975				V
Reverse Current at Rated DC Blocking Voltage @ T _A = 25°C @ T _A =150°C	I _R	5 50				μA
Maximum Reverse Recovery Time (Note 2)	t _{RR}	35				ns
Typical Junction Capacitance (Note 3)	C _j	70				pF
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to + 175				°C

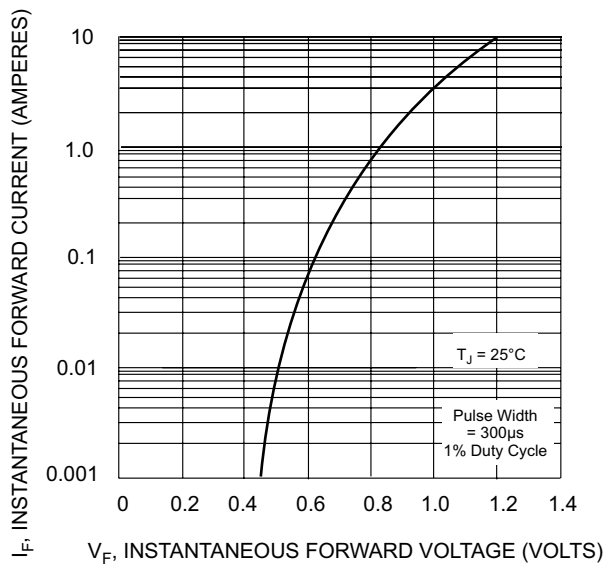
- Notes:
1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.
 2. Reverse Recovery Test Conditions: F = 0.5 A, I_R = 1.0 A, I_{RR} = 0.25A
 3. Measured at 1.0MHz and applied reverse voltage of 4.0V.



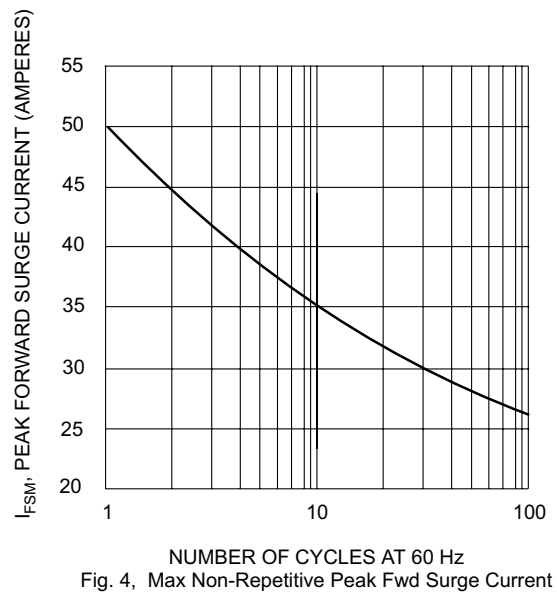
T_A , AMBIENT TEMPERATURE (°C)
Fig. 1, Typical Fwd Current Derating Curve



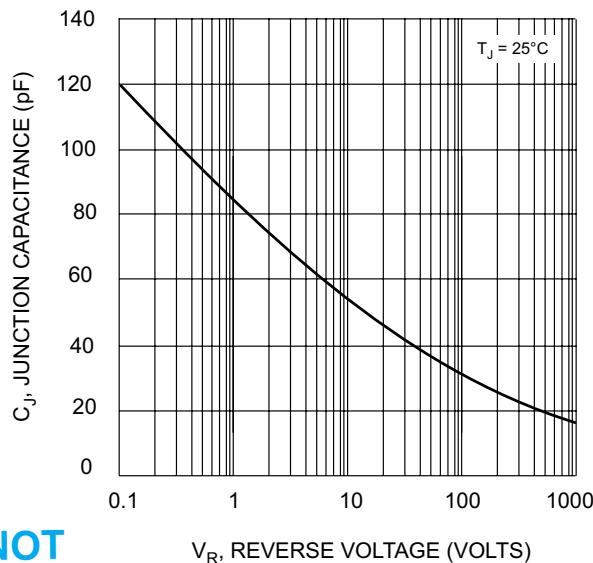
PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 2, Typical Reverse Characteristics



V_F , INSTANTANEOUS FORWARD VOLTAGE (VOLTS)
Fig. 3, Typical Instantaneous Fwd Characteristics



NUMBER OF CYCLES AT 60 Hz
Fig. 4, Max Non-Repetitive Peak Fwd Surge Current



V_R , REVERSE VOLTAGE (VOLTS)
Fig. 5, Typical Junction Capacitance

INACTIVE, NOT FOR NEW DESIGN, USE SF20AG - SG20JG