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**SF21
THRU
SF26**

**2.0 Amp Super Fast
Rectifier
50 to 400 Volts**

Features

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

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- For capacitive load, derate current by 20%

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SF21	50V	35V	50V
SF22	100V	70V	100V
SF23	150V	105V	150V
SF24	200V	140V	200V
SF25	300V	210V	300V
SF26	400V	280V	400V

DO-15

DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.230	.300	5.80	7.60	
B	.104	.140	2.60	3.60	
C	.026	.034	.70	.90	
D	1.000	---	25.40	---	

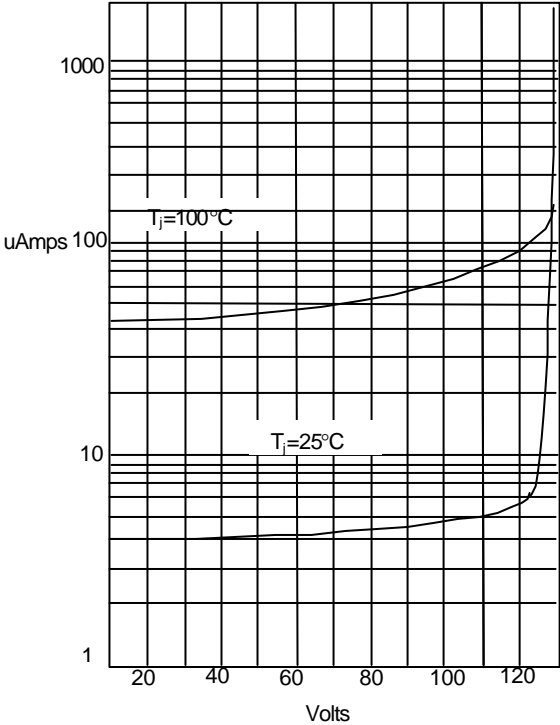
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0A	$T_C = 55^\circ C$
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SF21-SF24 SF25-SF26	V_F	0.95V 1.3V	$I_{FM} = 2.0A;$ $T_C = 25^\circ C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0uA 100uA	$T_C = 25^\circ C$ $T_C = 100^\circ C$
Typical Junction Capacitance SF21-SF24 SF25-SF26	C_J	60pF 30pF	Measured at 1.0MHz, $V_R=4.0V$
Maximum Reverse Recovery Time	T_{RR}	35nS	$I_F=0.5A, I_R=1.0A,$ $I_{RR}=0.25A$

Pulse Test: Pulse width 300 usec, Duty cycle 1%.

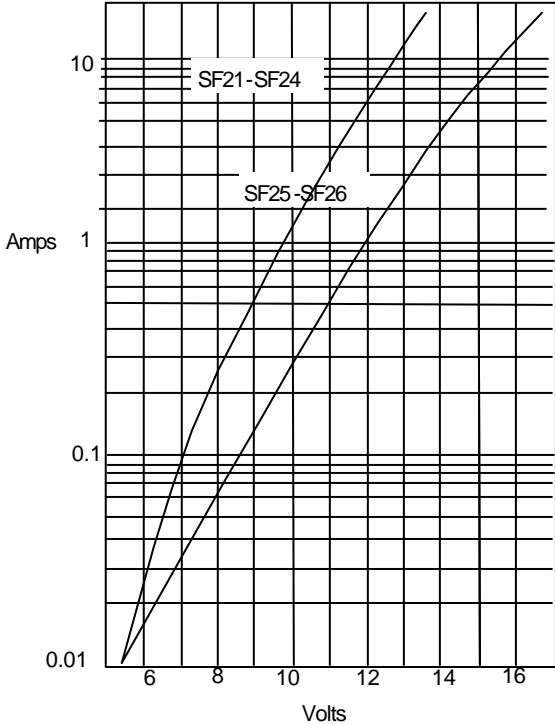
SF21 thru SF26

Figure 1
Typical Reverse Characteristics



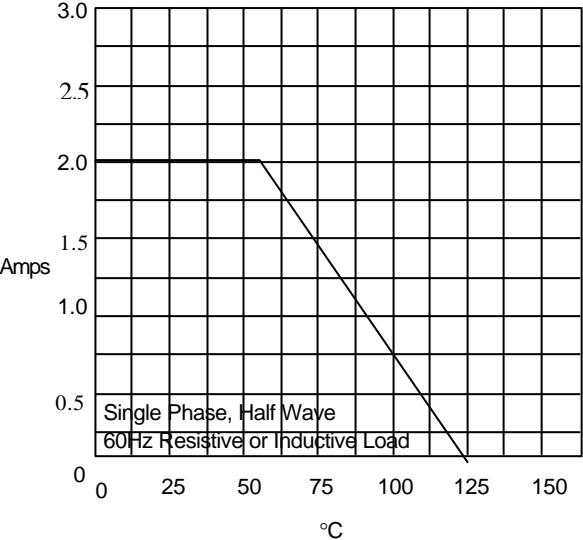
Instantaneous Reverse Current - uAmperes versus Percent of Rated Peak Reverse Voltage - %

Figure 2
Typical Forward Characteristics



Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current Per Leg - Amperes versus Case Temperature - $^\circ\text{C}$

SF21 thru SF26

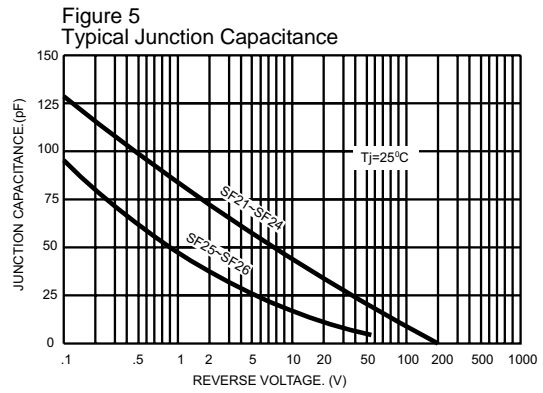
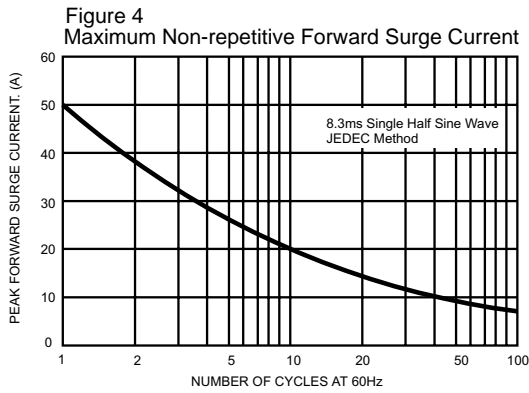
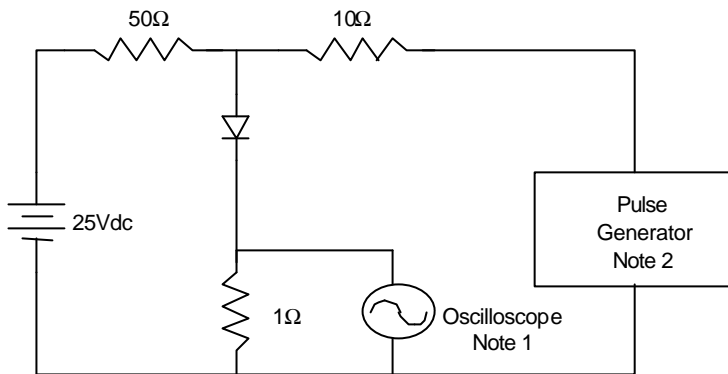


Figure 6
Reverse Recovery Time Characteristic And Test Circuit Diagram



- Notes:
1. Rise Time = 7ns max.
Input impedance = 1 megohm, 22pF
 2. Rise Time = 10ns max.
Source impedance = 50 ohms
 3. Resistors are non-inductive

