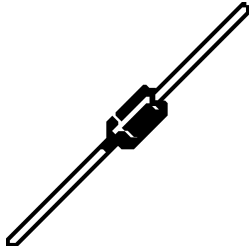
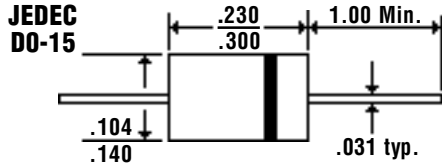


## Description



## Mechanical Dimensions

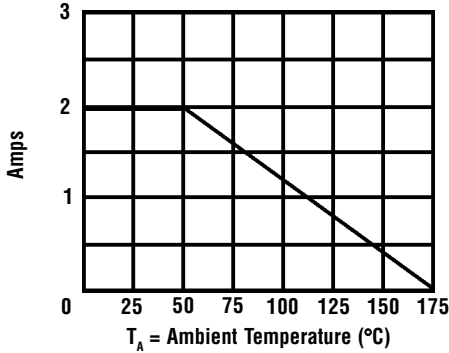


## Features

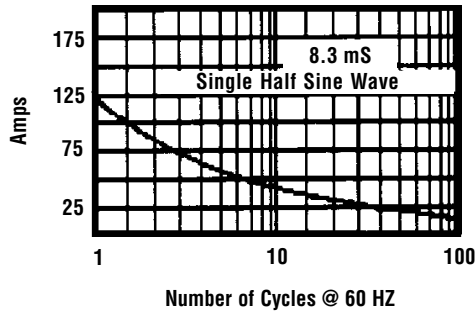
- HIGH SURGE CAPABILITY
- LOW FORWARD VOLTAGE DROP
- HIGH CURRENT CAPABILITY
- EXCEEDS ENVIRONMENTAL STANDARDS OF MIL-STD-19500

Electrical Characteristics @ 25°C.	SF21 ... 24 Series				Units
Maximum Ratings	SF21	SF22	SF23	SF24	
Peak Repetitive Reverse Voltage... $V_{RRM}$	50	100	150	200	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	105	140	Volts
DC Blocking Voltage... $V_{DC}$	50	100	150	200	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 55^\circ C$	2.0				Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Current & Temp	50				Amps
Forward Voltage @ 2.0A... $V_f$	0.95				Volts
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	$T_A = 25^\circ C$		2.0		μAmps
	$T_A = 150^\circ C$		50		μAmps
Typical Junction Capacitance... $C_j$ (Note 1)	70				pF
Typical Reverse Recovery Time... $t_{RR}$ (Note 2)	35				nS
Operating & Storage Temperature Range... $T_J, T_{STRG}$	-65 to 150				°C

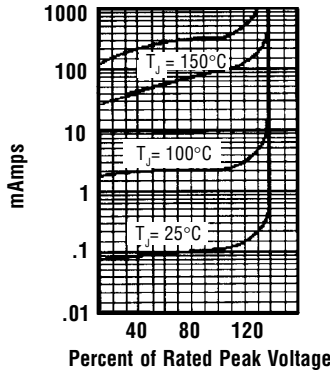
**Forward Current Derating Curve**



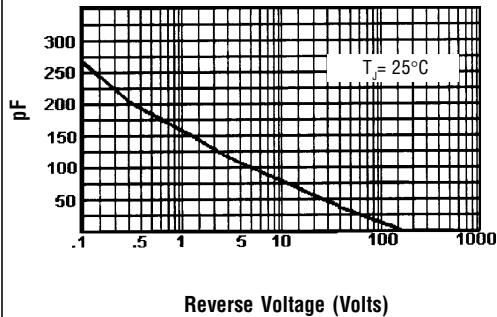
**Non-Repetitive Peak Forward Surge Current**



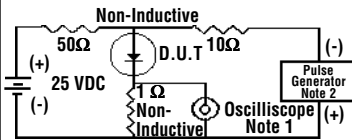
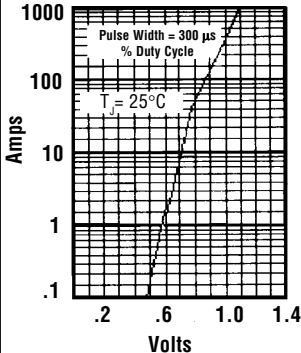
**Typical Reverse Characteristics**



**Typical Junction Capacitance**



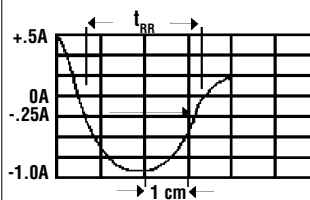
**Typical Instantaneous Forward Characteristics**



Notes:

1. Rise Time = 7 nS Max. Impedance = 1 megohm, 22 pF
2. Rise Time = 10 nS Max. Source Impedance = 50 Ohms

**Reverse Recovery Characteristics**



Time Base Set @ 50/100nS/cm

Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
  2. Conditions: I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1.0A, I<sub>RR</sub> = 0.25A.