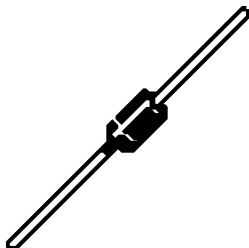
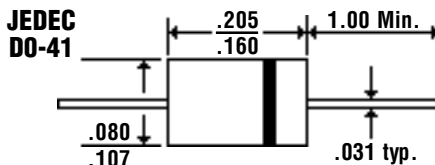


Description



Mechanical Dimensions

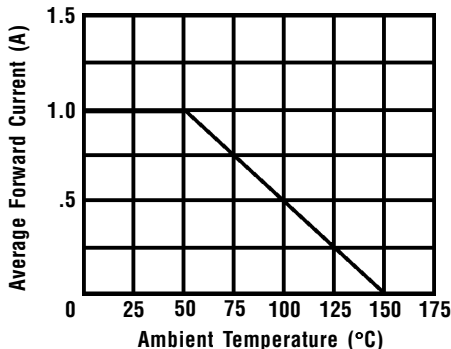


Features

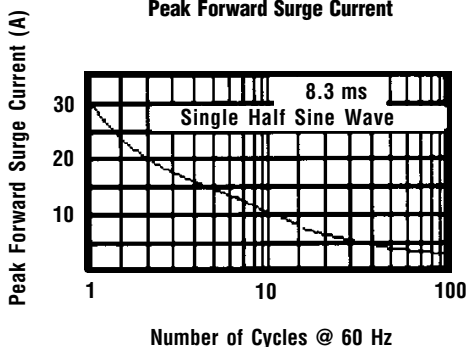
- **HIGH SURGE CAPABILITY**
- **HIGH CURRENT CAPABILITY**
- **LOW FORWARD VOLTAGE DROP**
- **MEETS UL SPECIFICATION 94V-0**

SF11 . . . 18 Series									Units									
Maximum Ratings	SF11	SF12	SF13	SF14	SF15	SF16	SF17	SF18										
Peak Repetitive Reverse Voltage...V _{RRM}	50	100	150	200	300	400	500	600	Volts									
RMS Reverse Voltage...V _{R(rms)}	35	70	105	140	210	280	350	420	Volts									
DC Blocking Voltage...V _{DC}	50	100	150	200	300	400	500	600	Volts									
Average Forward Rectified Current...I _{F(av)} T _A = 55°C	1.0								Amps									
Non-Repetitive Peak Forward Surge Current...I _{FSM} @ Rated Current & Temp	<	30		> <	25		>		Amps									
Operating & Storage Temperature...Range...T _J , T _{STRG}	-65 to 150								°C									
Electrical Characteristics																		
Maximum Forward Voltage @ 1.0A...V _F	<								0.95		> <	1.30		> <	1.50	..	>	Volts
Maximum DC Reverse Current...I _R @ Rated DC Blocking Voltage	T _A = 25°C								5.0					μAmps				
	T _A =100°C								50					μAmps				
Typical Junction Capacitance...C _j (Note 1)					50								pF					
Maximum Reverse Recovery Time...t _{RR} (Note 2)	<	35		> <	50		>		ns									

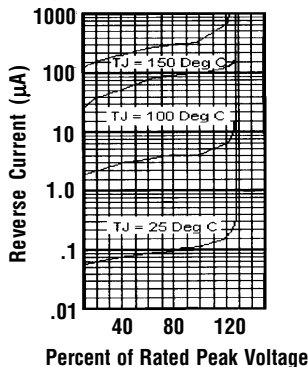
Forward Current Derating Curve



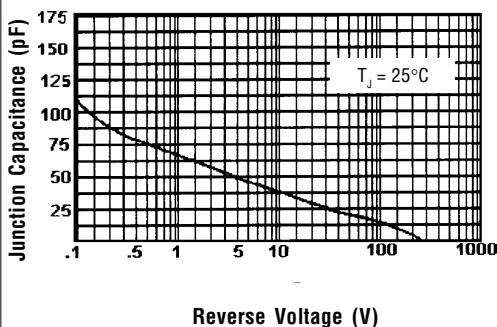
Non-Repetitive Peak Forward Surge Current



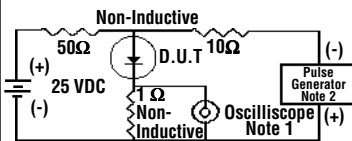
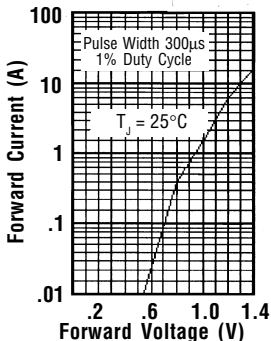
Typical Reverse Characteristics



Typical Junction Capacitance



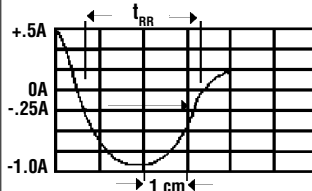
Typical Instantaneous Forward Characteristics



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: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.