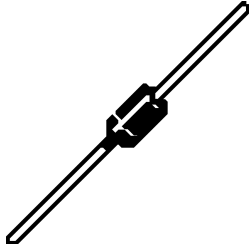
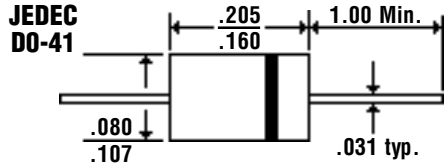


SF11 . . . 18 Series

Description



Mechanical Dimensions

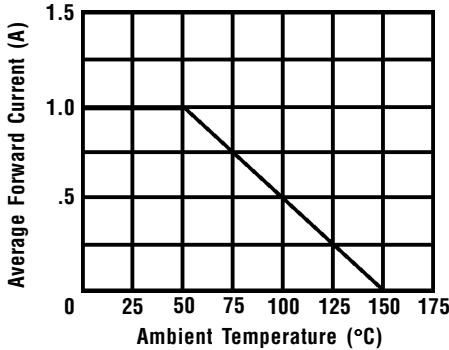


Features

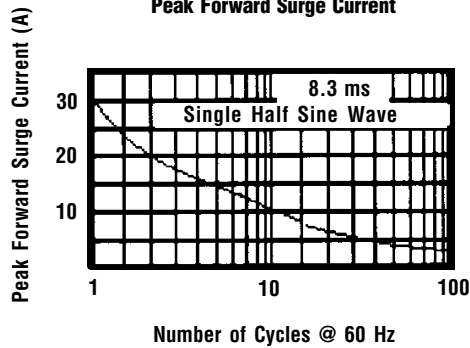
- HIGH SURGE CAPABILITY
- HIGH CURRENT CAPABILITY
- LOW FORWARD VOLTAGE DROP
- MEETS UL SPECIFICATION 94V-0

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... $I_{F(av)}$ $T_A = 55^\circ\text{C}$	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								$^\circ\text{C}$	
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					$T_A = 25^\circ\text{C}$ 5.0					μAmps
					$T_A = 100^\circ\text{C}$ 50					μAmps
Typical Junction Capacitance... C_j (Note 1)					50					pF
Maximum Reverse Recovery Time... t_{RR} (Note 2)	35					50			ns	

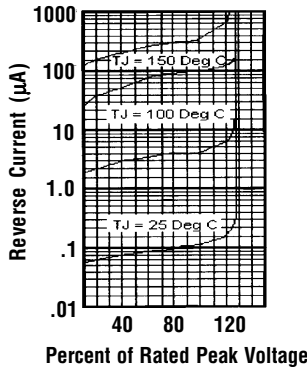
Forward Current Derating Curve



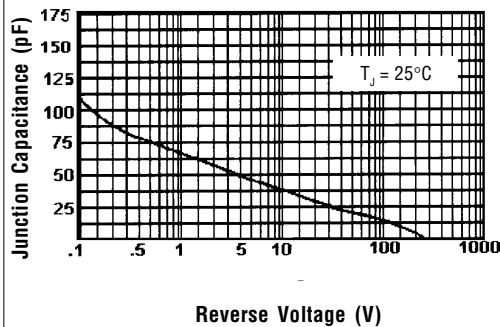
Non-Repetitive Peak Forward Surge Current



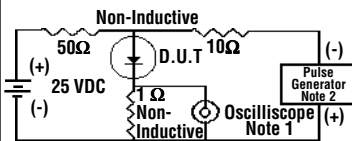
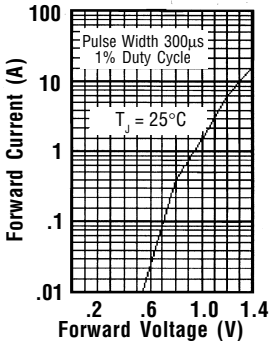
Typical Reverse Characteristics



Typical Junction Capacitance



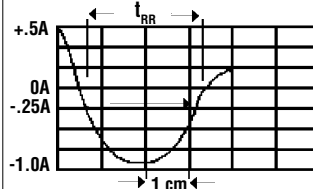
Typical Instantaneous Forward Characteristics



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