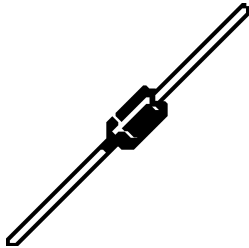
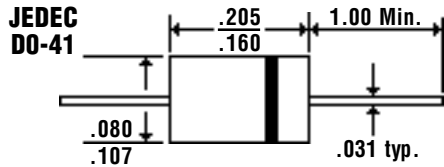


Description



Mechanical Dimensions

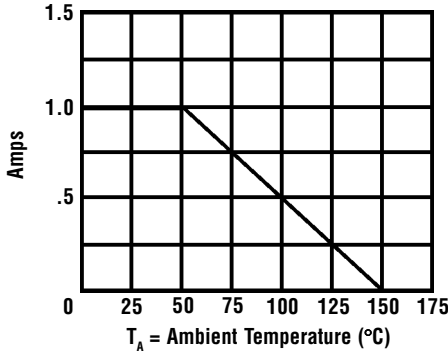


Features

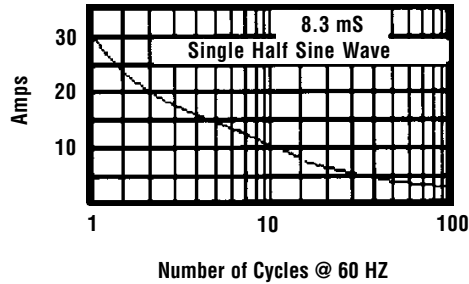
- HIGH SURGE CAPABILITY
- HIGH CURRENT CAPABILITY
- LOW FORWARD VOLTAGE DROP
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	SF11 ... 14 Series				Units
Maximum Ratings	SF11	SF12	SF13	SF14	
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... $I_{F(av)}$ $T_A = 55^\circ\text{C}$	1.0				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp	30				Amps
Forward Voltage @ 1.0A... V_F	0.95				Volts
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
Typical Reverse Recovery Time... t_{RR} (Note 2)	35				nS
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 150				°C

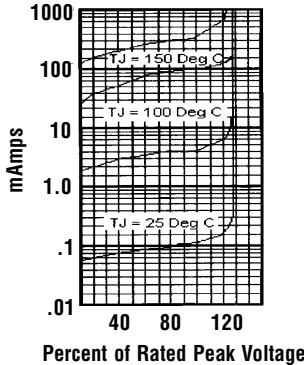
Forward Current Derating Curve



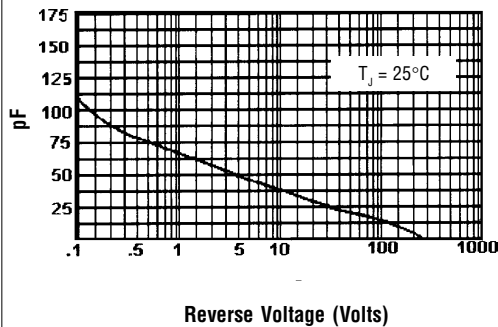
Non-Repetitive Peak Forward Surge Current



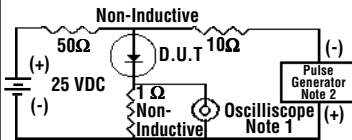
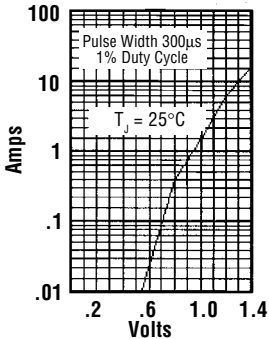
Typical Reverse Characteristics



Typical Junction Capacitance



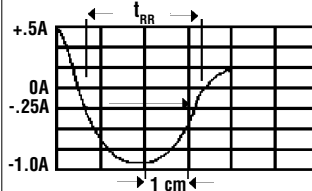
Typical Instantaneous Forward Characteristics



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