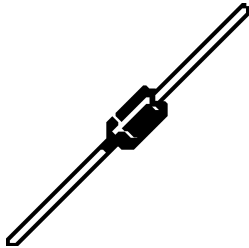
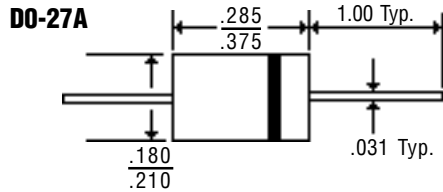


Description



Mechanical Dimensions

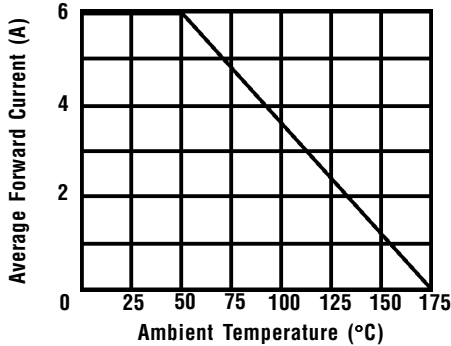


Features

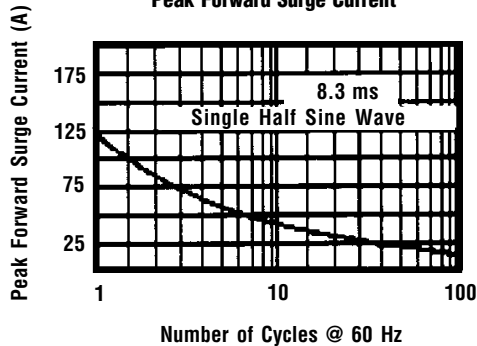
- **LOW COST**
- **LOW LEAKAGE**
- **HIGH SURGE CAPABILITY**
- **MEETS UL SPECIFICATION 94V-0**

SF61 . . . 66 Series						Units
Maximum Ratings	SF61	SF62	SF63	SF64	SF66	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	150	200	400	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	105	140	280	Volts
DC Blocking Voltage... V_{DC}	50	100	150	200	400	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 55^\circ C$	..... 6.0					Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp	..... 150					Amps
Operating & Storage Temperature Range... T_J, T_{STRG}	..... -65 to 150					°C
Electrical Characteristics						
Maximum Forward Voltage @ 6.0A... V_F	< 0.95 > < 1.4 >					Volts
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage	..... 5.0					μAmps
	..... 200					μAmps
Typical Junction Capacitance... C_j (Note 1)	..... 170					pF
Maximum Reverse Recovery Time... t_{RR} (Note 2)	< 35 > < 75 >					ns

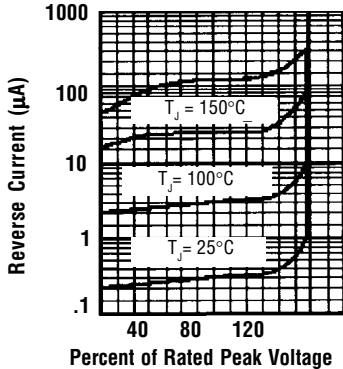
Forward Current Derating Curve



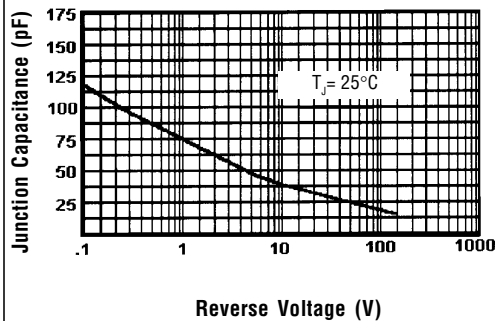
Non-Repetitive Peak Forward Surge Current



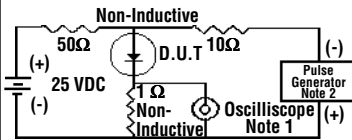
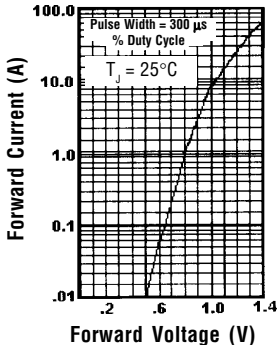
Typical Reverse Characteristics



Typical Junction Capacitance



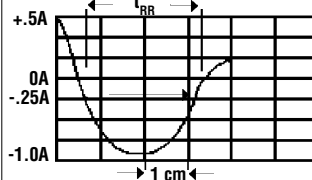
Typical Instantaneous Forward Characteristics



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