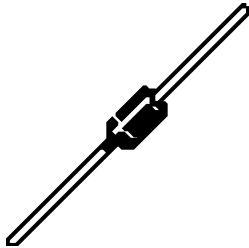
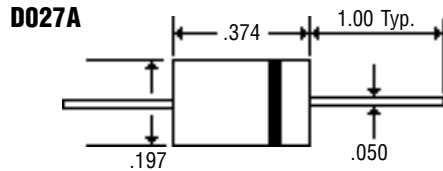


## Description



## Mechanical Dimensions

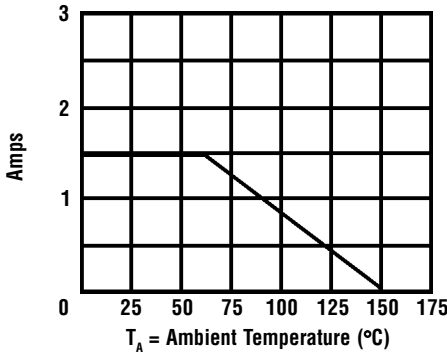


## Features

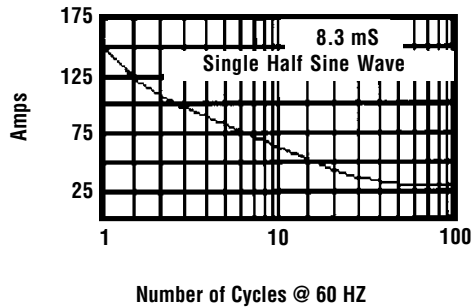
- **LOW COST**
- **LOW LEAKAGE**
- **HIGH SURGE CAPABILITY**
- **MEETS UL SPECIFICATION 94V-0**

Electrical Characteristics @ 25°C.	SF31 ... 36 Series						Units
Maximum Ratings	SF31	SF32	SF33	SF34	SF35	SF36	
Peak Repetitive Reverse Voltage... $V_{RRM}$	50	100	150	200	250	400	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	105	140	175	280	Volts
DC Blocking Voltage... $V_{DC}$	50	100	150	200	250	400	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 55^\circ\text{C}$	..... 3.0 .....						Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Current & Temp	..... 75 .....						Amps
Forward Voltage @ 3.0A... $V_F$	< ..... 0.95 ..... > < ..... 1.4 ..... >						Volts
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	..... 5.0 .....						μAmps
Typical Junction Capacitance... $C_J$ (Note 1)	..... 100 .....						pF
Typical Reverse Recovery Time... $t_{RR}$ (Note 2)	< ..... 35 ..... > < ..... 75 ..... >						nS
Operating & Storage Temperature Range... $T_J, T_{STRG}$	..... -65 to 150 .....						°C

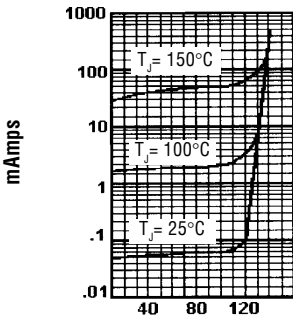
**Forward Current Derating Curve**



**Non-Repetitive Peak Forward Surge Current**

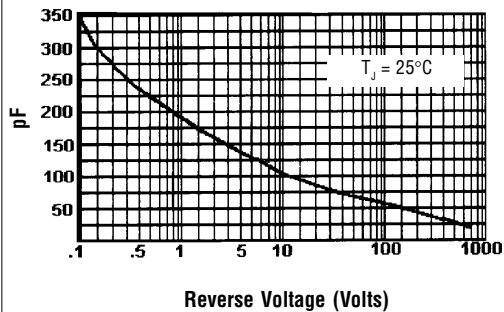


**Typical Reverse Characteristics**

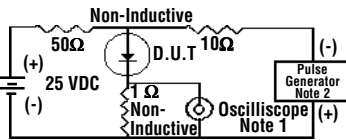
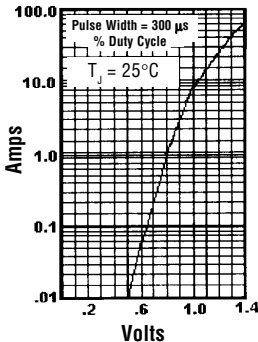


Percent of Rated Peak Voltage

**Typical Junction Capacitance**



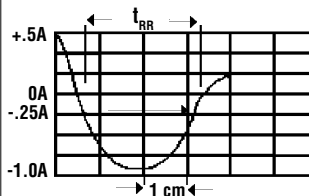
**Typical Instantaneous Forward Characteristics**



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**



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