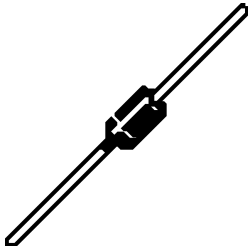
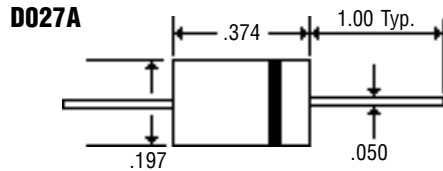


Description



Mechanical Dimensions

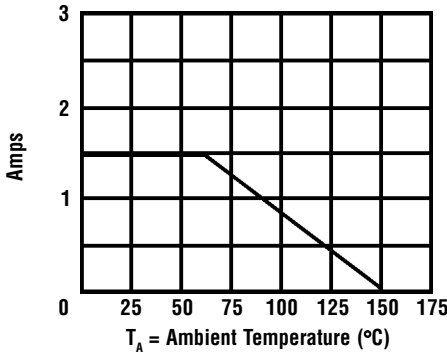


Features

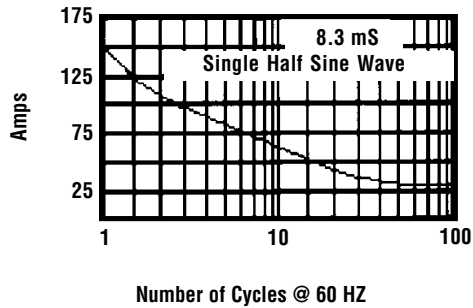
- LOW COST
- LOW LEAKAGE
- HIGH SURGE CAPABILITY
- MEETS UL SPECIFICATION 94V-0

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

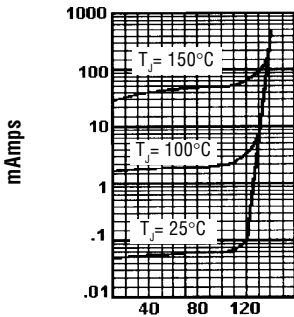
Forward Current Derating Curve



Non-Repetitive Peak Forward Surge Current

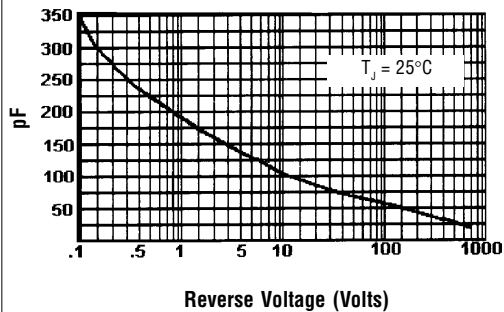


Typical Reverse Characteristics

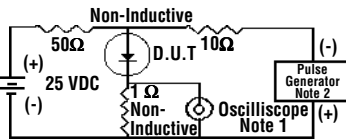
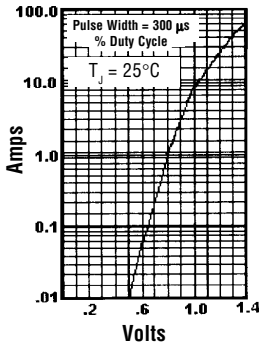


Percent of Rated Peak Voltage

Typical Junction Capacitance



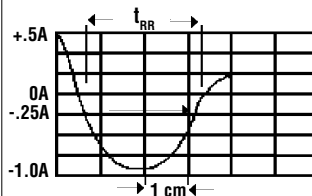
Typical Instantaneous Forward Characteristics



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



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