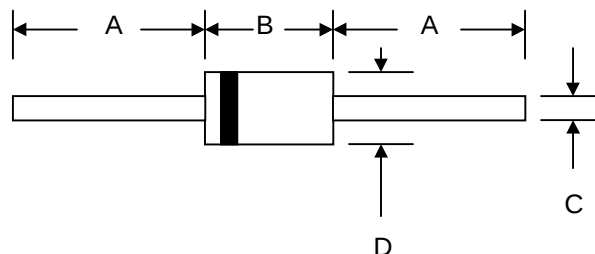


Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



DO-201AD		
Dim	Min	Max
A	25.4	—
B	8.50	9.50
C	1.20	1.30
D	5.0	5.60
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

Characteristic	Symbol	SF31	SF32	SF33	SF34	SF35	SF36	SF37	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	150	200	300	400	600	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	105	140	210	280	420	V
Average Rectified Output Current (Note 1) @T _A = 50°C	I _O	3.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	125							A
Forward Voltage @I _F = 3.0A	V _{FM}	0.95				1.3		1.7	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	5.0 100							μA
Reverse Recovery Time (Note 2)	t _{rr}	35							nS
Typical Junction Capacitance (Note 3)	C _j	100				80			pF
Operating Temperature Range	T _j	-65 to +125							°C
Storage Temperature Range	T _{STG}	-65 to +150							°C

*Glass passivated forms are available upon request

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case
 2. Measured with I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A. See figure 5.
 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

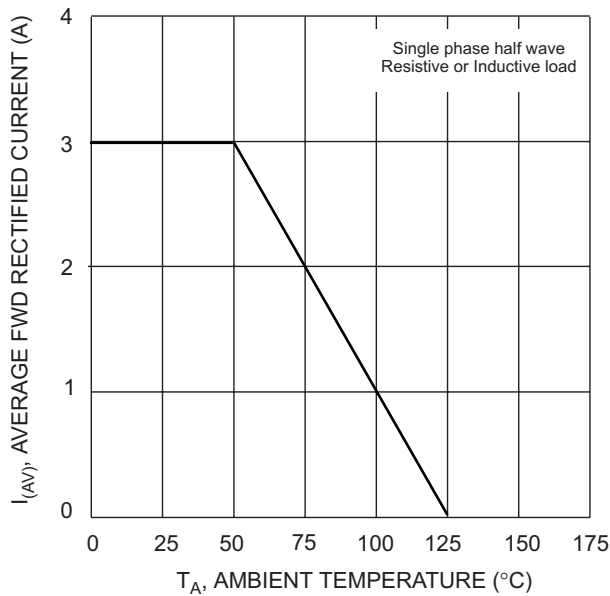


Fig. 1 Forward Current Derating Curve

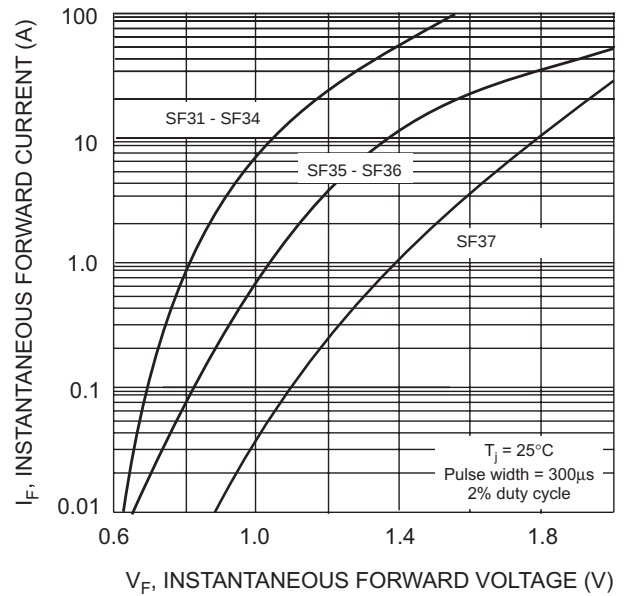


Fig. 2 Typical Forward Characteristics

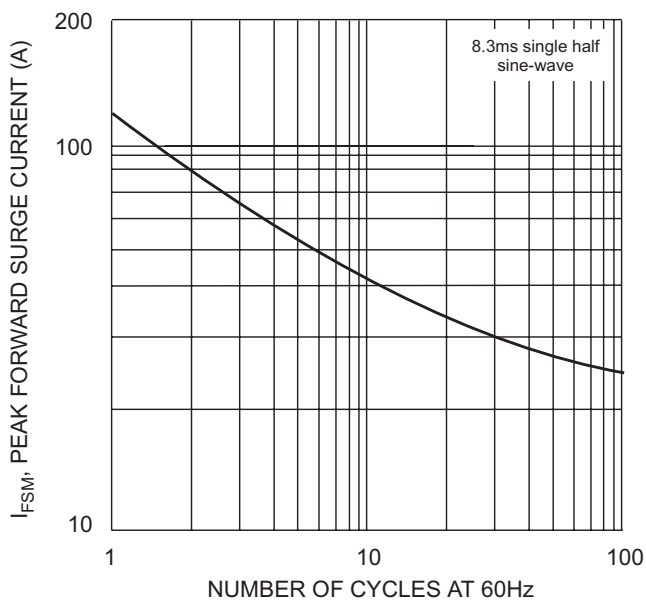


Fig. 3 Peak Forward Surge Current

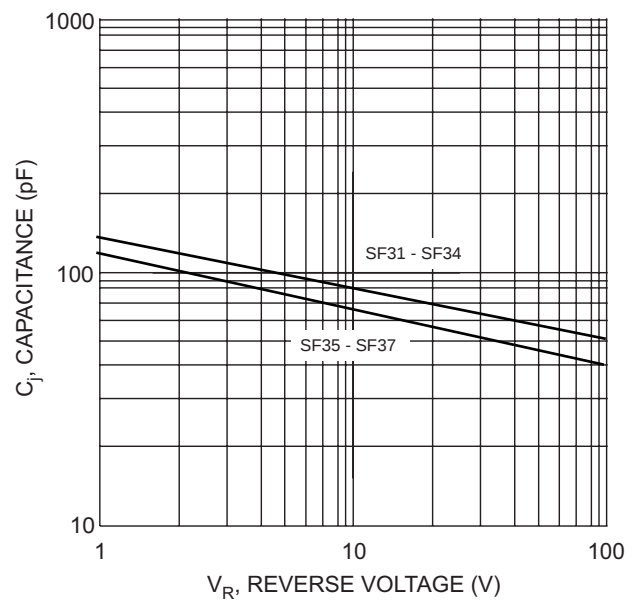
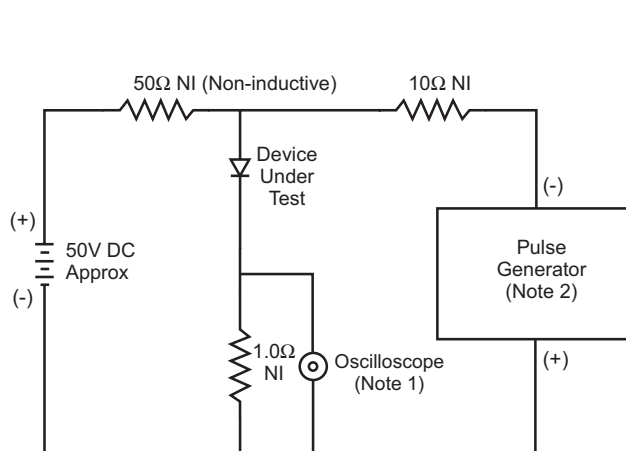


Fig. 4 Typical Junction Capacitance



- Notes:
1. Rise Time = 7.0ns max. Input Impedance = 1.0M Ω , 22pF.
 2. Rise Time = 10ns max. Input Impedance = 50 Ω .

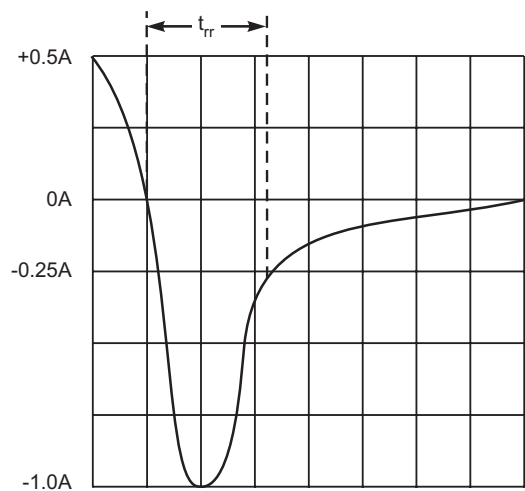


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.♦	Package Type	Shipping Quantity
SF31-T3	DO-201AD	1200/Tape & Reel
SF31-TB	DO-201AD	1200/Tape & Box
SF31	DO-201AD	500 Units/Box
SF32-T3	DO-201AD	1200/Tape & Reel
SF32-TB	DO-201AD	1200/Tape & Box
SF32	DO-201AD	500 Units/Box
SF33-T3	DO-201AD	1200/Tape & Reel
SF33-TB	DO-201AD	1200/Tape & Box
SF33	DO-201AD	500 Units/Box
SF34-T3	DO-201AD	1200/Tape & Reel
SF34-TB	DO-201AD	1200/Tape & Box
SF34	DO-201AD	500 Units/Box
SF35-T3	DO-201AD	1200/Tape & Reel
SF35-TB	DO-201AD	1200/Tape & Box
SF35	DO-201AD	500 Units/Box
SF36-T3	DO-201AD	1200/Tape & Reel
SF36-TB	DO-201AD	1200/Tape & Box
SF36	DO-201AD	500 Units/Box
SF37-T3	DO-201AD	1200/Tape & Reel
SF37-TB	DO-201AD	1200/Tape & Box
SF37	DO-201AD	500 Units/Box

Products listed in **bold** are WTE **Preferred** devices.

♦T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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