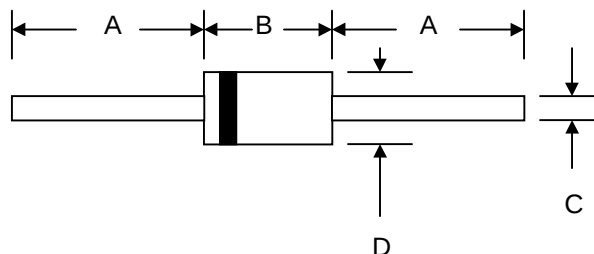


Features

- 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
- Epoxy: UL 94V-O rate flame retardant



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	SF61	SF62	SF63	SF64	SF65	SF66	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	150	200	300	400	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	105	140	210	280	V
Average Rectified Output Current (Note 1) @T _A = 50°C	I _O	6.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150						A
Forward Voltage @I _F = 6.0A	V _{FM}	0.975				1.3		V
Peak Reverse Current At Rated DC Blocking Voltage @T _A = 25°C @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	120				60		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.

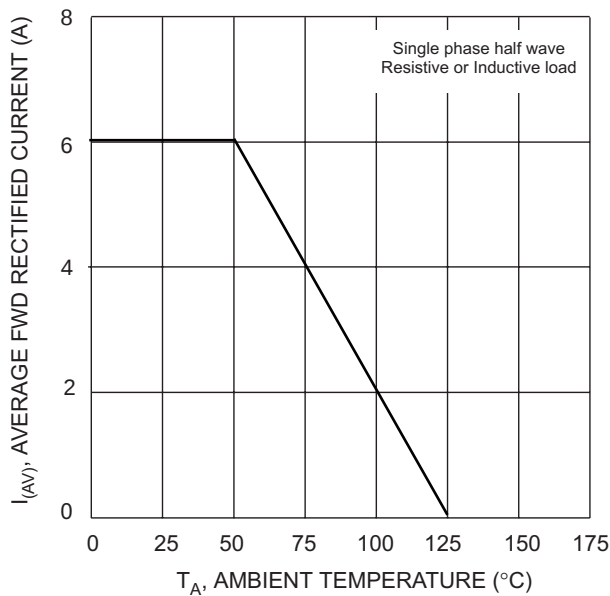


Fig. 1 Forward Current Derating Curve

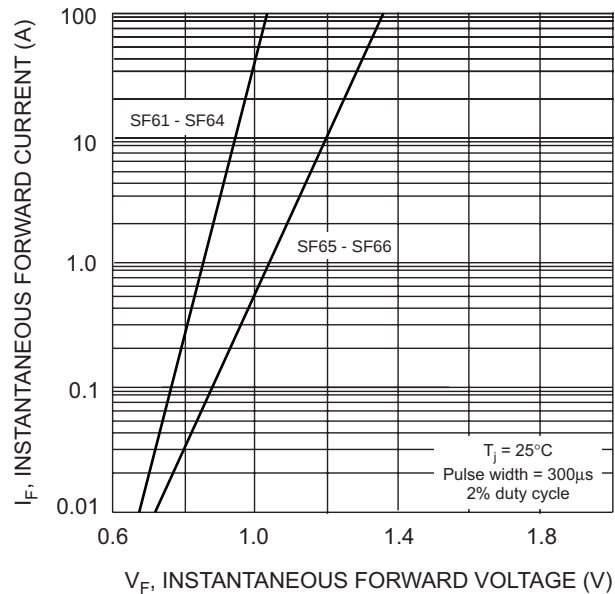


Fig. 2 Typical Forward Characteristics

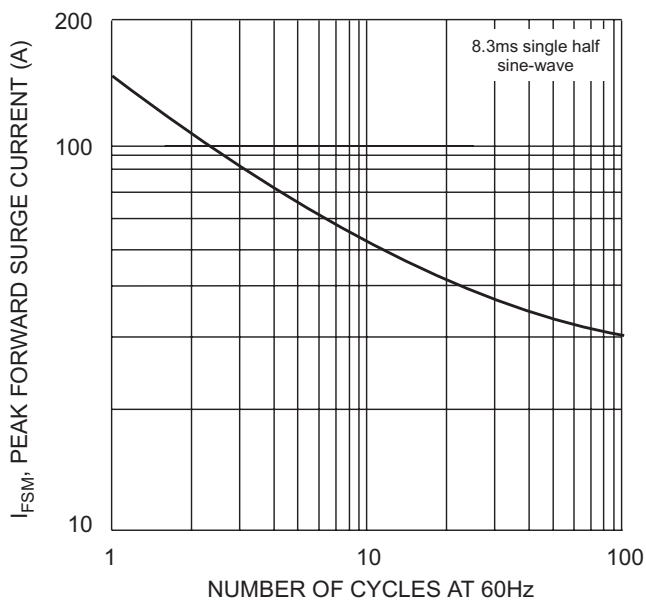


Fig. 3 Peak Forward Surge Current

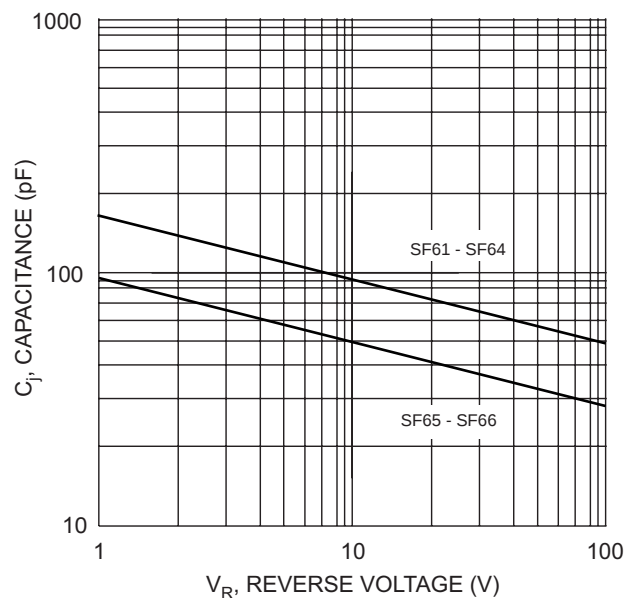
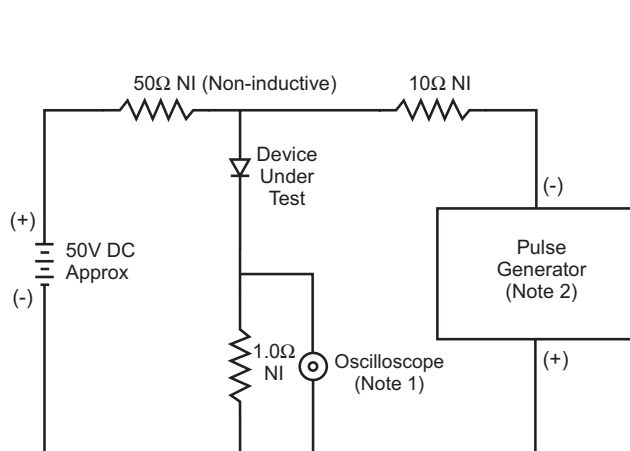


Fig. 4 Typical Junction Capacitance



Notes:

1. Rise Time = 7.0ns max. Input Impedance = 1.0MΩ, 22pF.
2. Rise Time = 10ns max. Input Impedance = 50Ω.

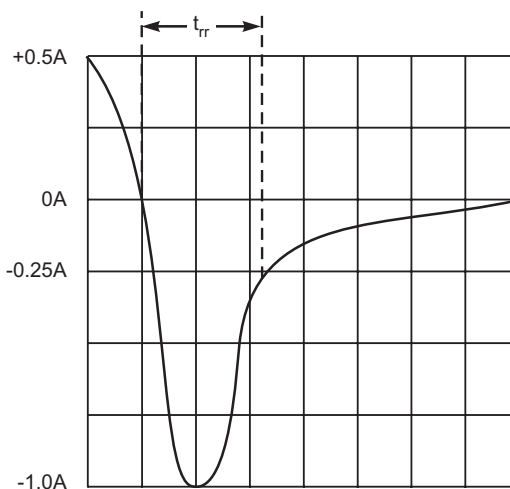


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.♦	Package Type	Shipping Quantity
SF61-T3	DO-201AD	1200/Tape & Reel
SF61-TB	DO-201AD	1200/Tape & Box
SF61	DO-201AD	500 Units/Box
SF62-T3	DO-201AD	1200/Tape & Reel
SF62-TB	DO-201AD	1200/Tape & Box
SF62	DO-201AD	500 Units/Box
SF63-T3	DO-201AD	1200/Tape & Reel
SF63-TB	DO-201AD	1200/Tape & Box
SF63	DO-201AD	500 Units/Box
SF64-T3	DO-201AD	1200/Tape & Reel
SF64-TB	DO-201AD	1200/Tape & Box
SF64	DO-201AD	500 Units/Box
SF65-T3	DO-201AD	1200/Tape & Reel
SF65-TB	DO-201AD	1200/Tape & Box
SF65	DO-201AD	500 Units/Box
SF66-T3	DO-201AD	1200/Tape & Reel
SF66-TB	DO-201AD	1200/Tape & Box
SF66	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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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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We power your everyday.