

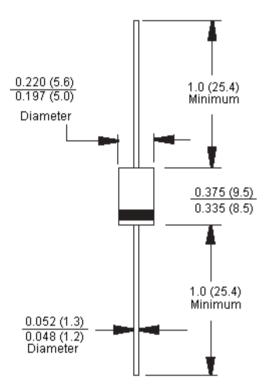






### Features:

- High efficiency, low  $V_{\rm F}.$
- High current capability.
- High reliability.
- High surge current capability.
- Low power loss.
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application.



**DO-201AD** 

Dimensions : Inches (Millimetres)

### **Mechanical Data:**

Cases Lead Polarity High temperature soldering guaranteed Weight

- : Moulded plastic.
- : Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed.
- : Colour band denotes cathode end.
- : 260°C/10 seconds/0.375 inch, (9.5mm) lead lengths at 5lbs., (2.3kg) tension.
- : 1.2 grams.





### **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbol	SF61	SF63	SF66	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	150	400	
Maximum RMS Voltage	V <sub>RMS</sub>	35	105	280	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	150	400	
Maximum Average Forward Rectified Current 0.375 (9.5mm) Lead Length at $T_A = 55^{\circ}C$	l <sub>(AV)</sub>	6.0		А	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	150			
Maximum Instantaneous Forward Voltage at 6.0A	V <sub>F</sub>	0.975 1.3		V	
Maximum DC Reverse Current at $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage at $T_A = 100^{\circ}C$	I <sub>R</sub>	5.0 100		μΑ μΑ	
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	35		nS	
Typical Junction Capacitance (Note 2)	Cj	120		70	pF
Typical Thermal Resistance	R <sub>θJA</sub>	30		°C/W	
Operating Temperature Range	TJ	-65 to +125		- °C	
Storage Temperature Range	T <sub>STG</sub>	-65 to +150			

Note: 1. Reverse Recovery Test Conditions:  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{RR} = 0.25A$ .

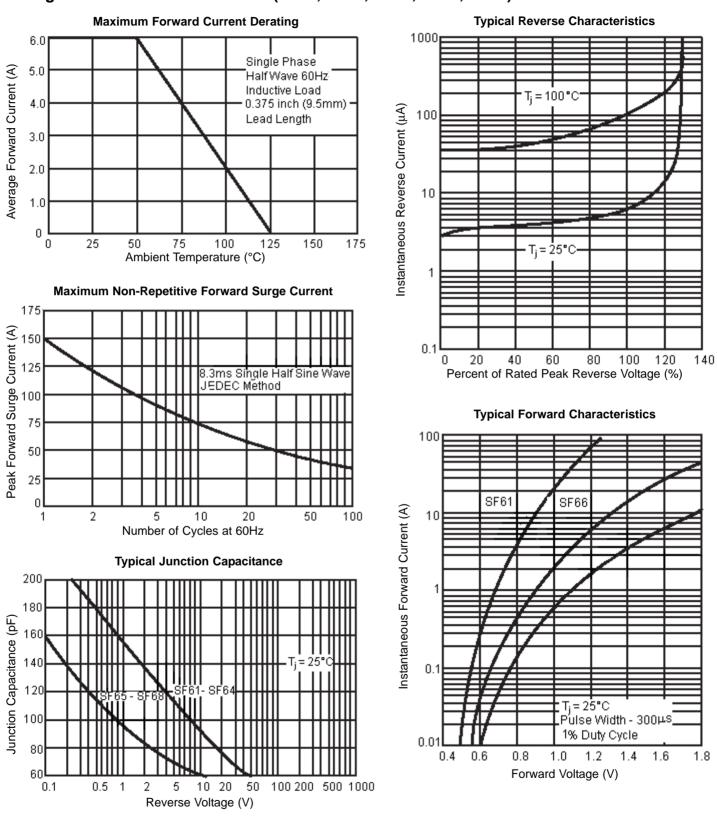
2. Measured at 1MHz and Applied Reverse Voltage of 4.0V dc.

3. Mount on Cu-Pad Size 16mm x 16mm on PCB.





## Ratings and Characteristic Curves (SF51, SF52, SF54, SF56, SF58)

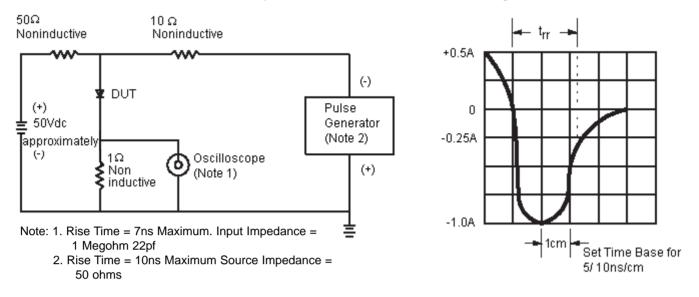




# **SF6x Series**



#### Reverse Recovery Time Characteristic and Test Circuit Diagram



### **Part Number Table**

Description	Part Number		
Diode, Ultra-Fast, 6A, 50V	SF61		
Diode, Ultra-Fast, 6A, 150V	SF63		
Diode, Ultra-Fast, 6A, 400V	SF66		



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