## **SF31** THRU **SF37** GW **3.0 AMP SUPER FAST RECTIFIERS VOLTAGE RANGE** 50 to 600 Volts CURRENT 3.0 Amperes **FEATURES** \* Low forward voltage drop DO-27 \* High current capability .220(5.6) \* High reliability .197(5.0) \* High surge current capability DIÀ. 1.0(25.4) \* Good for switching mode application ΜIN. **MECHANICAL DATA** V \* Case: Molded plastic .375(9.5) \* Epoxy: UL 94V-0 rate flame retardant .285(7.2) \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed \* Polarity: Color band denotes cathode end 1.0(25.4) \* Mounting position: Any .052(1.3) MIN. .048(1.2) DIA. ۷ Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

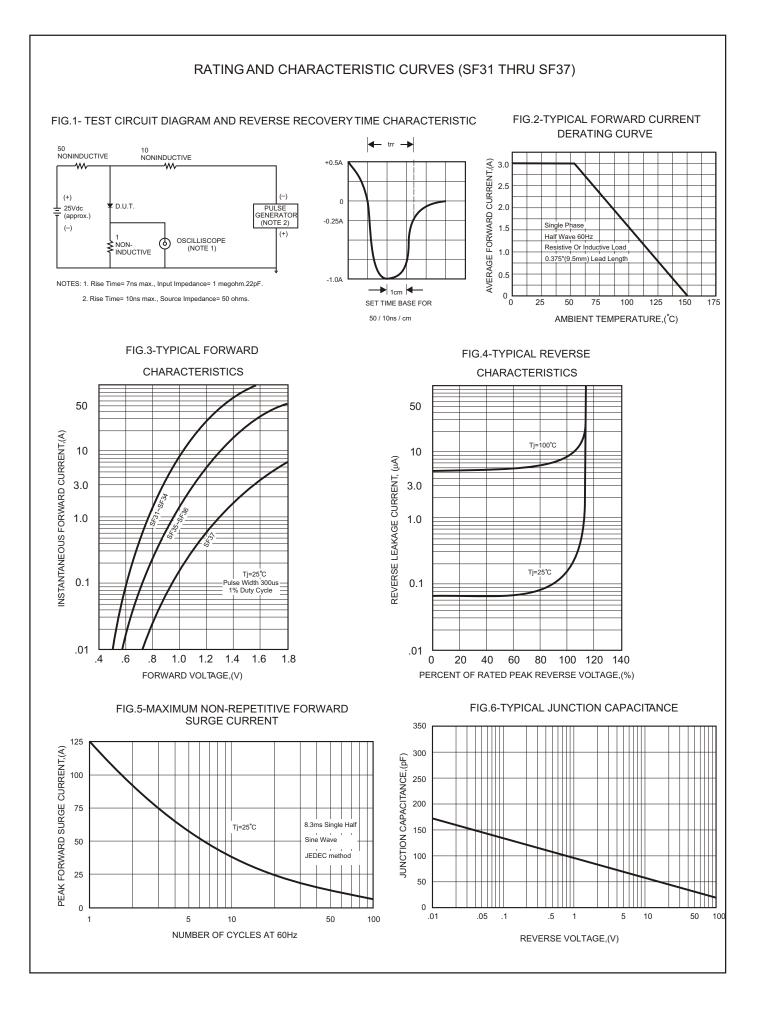
Rating 25°C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SF31	SF32	SF33	SF34	SF35	SF36	SF37	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	150	200	300	400	600	V
Maximum RMS Voltage	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current								
.375"(9.5mm) Lead Length at Ta=55°C		3.0						
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		125						A
Maximum Instantaneous Forward Voltage at 3.0A		0.95 1.3 1.7					V	
Maximum DC Reverse Current Ta=25°C		5.0						μA
at Rated DC Blocking Voltage Ta=100°C		100						
Maximum Reverse Recovery Time (Note 1)		35						nS
Typical Junction Capacitance (Note 2)		70						pF
Operating and Storage Temperature Range TJ, Tstg		-65-+150						

NOTES:

1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.



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