

## SF21 THRU SF28

# 2.0 AMPS. SUPER FAST RECTIFIERS

Voltage Range 50 to 600 Volts Current 2.0 Amperes

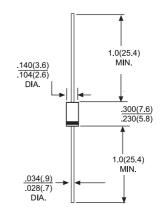
#### **Features**

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

#### Mechanical Data

- Cases:Molded plastic
- Epoxy:UL 94V-0 rate flame retardant
- Lead:Axial leads,solderable per MIL-STD-202,Method 208 guaranteed
- Polarity:Color band denotes cathode end
- High temperature soldering guaranteed: 250°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension
- Weight: 0.40 gram

## DO-15



Dimensions in inches and (millimeters)

#### **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%

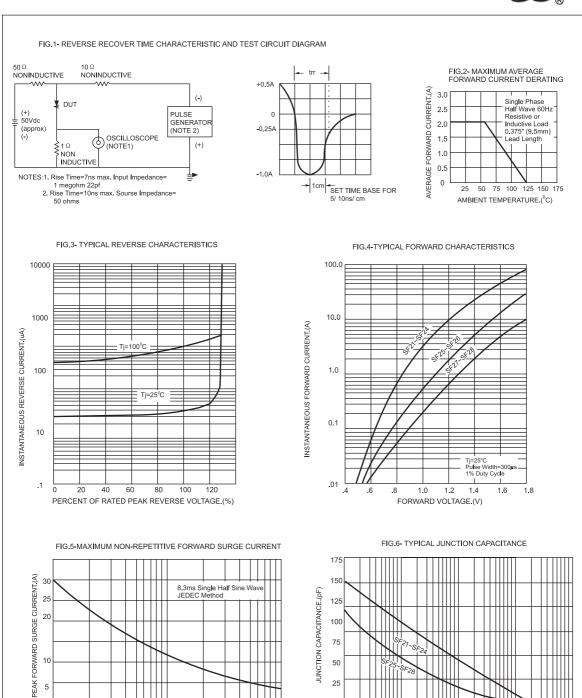
Type Number		SF21	SF22	SF23	SF24	SF25	SF26	SF27	SF28	UNITS
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	150	200	300	400	500	600	V
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	350	420	V
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	500	600	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length @TA = 55°C	IF(AV)	2.0								А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	50								А
Maximum Instantaneous Forward Voltage @2.0A	VF	0.95 1.3 1.7						1.7	V	
Maximun DC Reverse Current @ $TA = 25^{\circ}C$ at Rated DC Blocking Voltage @ $TA = 100^{\circ}C$	İR	5.0 100								uA uA
Maximum Reverse Recovery Time (Note 1)	TRR	35								nS
Typical Junction Capacitance (Note 2)	CJ	60 30					pF			
Operating Temperature Range	TJ	-55 to+125								°C
Storage Temperature Range	Tstg	-55 to+150								°C

NOTES: 1. Reverse Recovery Test Conditions: IF=0.5A,IR=1.0A,IRR=0.25A
2.Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

### RATINGS AND CHARACTERISTIC CURVES SF21 THRU SF28

NUMBER OF CYCLES AT 60Hz





.1

.5  100 200

REVERSE VOLTAGE.(V)

500 1000