

SF21 THRU SF28

2.0AMP. Super Fast Recitifiers

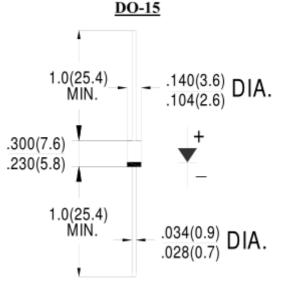


.High current capability,
.Low forward voltage drop
.Low power loss, high efficiency
.High surge capability
.High temperature soldering guaranteed
260 ℃ /1 0sec/0.375" lead length at 5 lbs tension

Superfast recovery time for high efficiency.

MECHANICAL DATA

.Case: Molded plastic
.Epoxy: UL94V-0 rate flame retardant
.Lead: MIL-STD- 202E, Method 208 guaranteed
.Polarity:Color band denotes cathode end
.Packaging:12mm tape per EIA STD RS-481
.Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25 °C, unless otherwise stated)

Type Number	SYM BOL	SF21	SF22	SF23	SF24	SF25	SF26	SF27	SF28	units
Maximum Recurrent Peak Reverse Voltage	V RRM	500	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	500	100	150	200	300	400	500	600	V
Maximum Average Forward Rectified Current .375"(9.5mm)lead length at TL =55 ℃	IF(AV)	2.0								А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50.0								А
Maximum Forward Voltage at 2.0A DC	V _F	0.95 1.3 1.7				l . 7	V			
Maximum DC Reverse Current $Ta = 25 \ C$ at rated DC blocking voltage $Ta = 125 \ C$	I _R	5.0 100.0								μΑ
Maximum Reverse Recovery Time (Note 1)	trr	35							ns	
Typical Junction Capacitance (Note 2)	CJ	60 30						pF		
Typical Thermal Resistance (Note 3)	R (JA)	75							°C/W	
Storage Temperature	T STG	-55 to +150								C
Operation Junction Temperature	TJ	-55 to +125								C

Note:

1. Reverse Recovery test Condition: If=0.5A,IR=1.0A,IRR=0.25A;

2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

3. P.C.B.Mounted on0.2×0.2"(5.0×5.0mm)[0.013mm thick]Copper Pad Area.



RATING AND CHARACTERISTIC CURVES (SF21 THRU SF28)

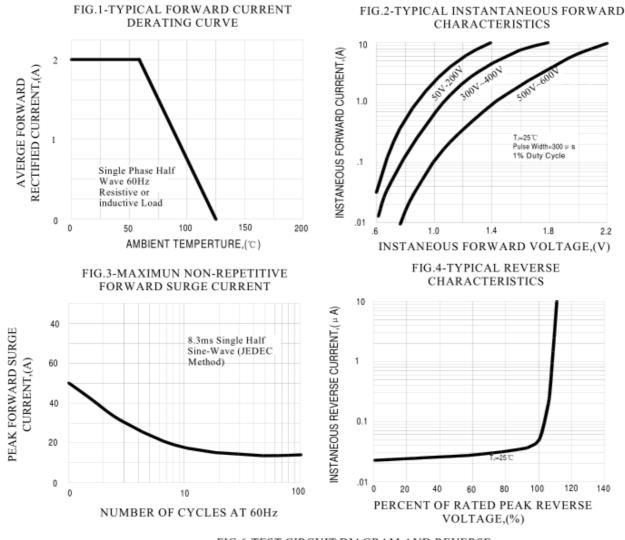


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERSITIC

