



PINGWEI ENTERPRISE

SF21G THRU SF28G

2.0AMPS.GLASS PASSIVATED SUPER FAST RECTIFIERS

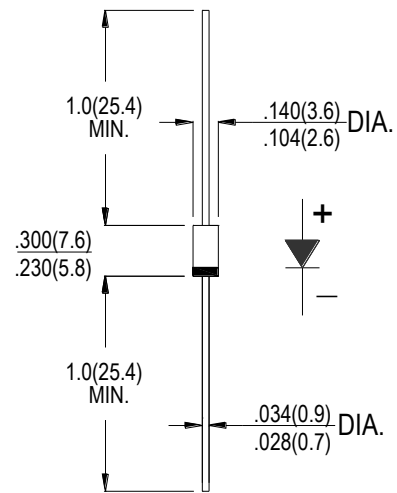
FEATURE

- . High current capability,
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed
260 °C /10sec/ 0.375" lead length at 5 lbs tension
- . Super fast recovery time for high efficiency.

MECHANICAL DATA

- . Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- . Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- . Polarity: color band denotes cathode
- . Mounting position: any

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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	SF21G	SF22G	SF23G	SF24G	SF25G	SF26G	SF27G	SF28G	units	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	500	600	V	
Maximum RMS Voltage	V_{RMS}	35	70	105	140	210	280	350	420	V	
Maximum DC blocking Voltage	V_{DC}	50	100	150	200	300	400	500	600	V	
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at $T_A = 55\text{ °C}$	$I_{F(AV)}$	2.0								A	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	60.0								A	
Maximum Instantaneous forward Voltage at 2.0A DC	V_F	0.95			1.3		1.7			V	
Maximum DC Reverse Current @ $T_A = 25\text{ °C}$ at rated DC blocking voltage @ $T_A = 125\text{ °C}$	I_R	5.0					100.0				μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	35								ns	
Typical Junction Capacitance (Note 2)	C_J	60				30				pF	
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	75								°C/W	
Storage Temperature	T_{STG}	-55 to +150								°C	
Operation Junction Temperature	T_J	-55 to +150								°C	

Note:

1. Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C. Board Mounted.