

SF21 THRU SF26

GLASS PASSIVATED SUPER FAST RECTIFIER

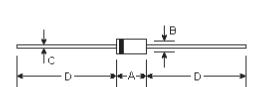
DO-15

Reverse Voltage - 50 to 600 Volts

Forward Current - 2.0 Amperes

Features

- High reliability
- Low leakage
- Low forward voltage
- High current capability
- Super fast switching speed
- High surge capability
- Good for switching mode circuit
- Glass passivated junction



Mechanical Data

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: MIL-STD-202E method 208C guaranteed
- Mounting Position: Any
- Weight: 0.014 ounce, 0.395 gram

DIMENSIONS										
DIM	inches		m	Note						
	Min.	Max.	Min.	Max.	Note					
А	0.228	0.299	5.8	7.6						
В	0.102	0.142	2.6	3.6	ф					
С	0.028	0.034	0.71	0.86	ф					
D	1.000	-	25.40	-						

Maximum Ratings and Electrical Characteristics

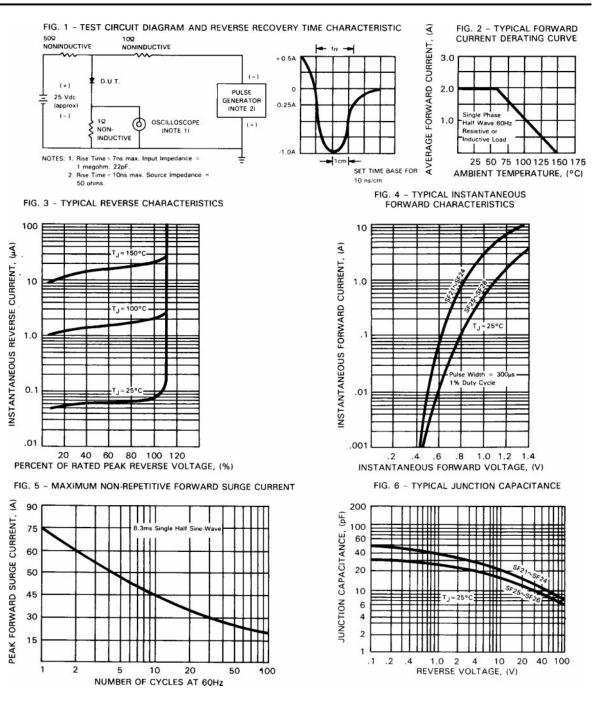
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	SF21	SF22	SF23	SF24	SF25	SF26	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	Volts
Maximum average forward current 0.375" (9.5mm) lead length at $\rm T_{A}\text{=}55^\circ\!C$	I _(AV)	2.0						Amps
Peak forward surge current, I _{FM} (surge): 8.3mS single half sine-wave süperimposed on rated load (MIL-STD-750D 4066 method)	I _{fsm}	75.0						Amps
Maximum forward voltage at 2.0A DC	V _F	0.95 1.27 1.75					Volts	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	I _R	5.0 50.0						μA
Maximum reverse recovery time (Note 1)	T _{rr}	35.0						
Typical junction capacitance (Note 2)	C	30 20					ρF	
Operating and storage temperature range	T _J , T _{stg}	-65 to +150						°C

Notes:

(1) Test conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{rr}=0.25A$

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts



RATINGS AND CHARACTERISTIC CURVES