

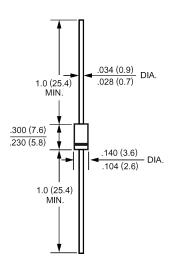
SF21 THRU SF28 Superfast Recovery Rectitiers

FEATURES

- · High surge capability
- · Low forward voltage, high current capability
- · Hermetically sealed
- · Superfast recovery times
- · Exceeds environmental standards of MIL-S-19500/228
- · Low leakage.

MECHANICAL DATA

Case: Molded plastic, DO-15 Epoxy: UL 94V-O rate flame retardant Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed Polarity: Color band denotes cathode end Mounting position: Any Weight: 0.015ounce, 0.4gram



DO-15

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

	Symbols	SF21	SF22	SF23	SF24	SF25	SF26	SF28	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current	т	2.0							Amp
.375"(9.5mm) Lead Length at T _A =55	I _(AV)								
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM} 50							Amp	
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 2.0A DC and 25	V _F	1.0				1.25 1.65			Volts
Maximum Reverse Current at T _A =25	т	5.0 500							uAmp
at Rated DC Blocking Voltage T _A =100	I _R								
Typical Junction Capacitance (Note 1)	CJ	60				30			pF
Typical Thermal Resistance (Note 2)	R _{0JA}	40							/W
Maximum Reverse Recovery Time (Note 3)	T _{RR}	35							nS
Operating Junction Temperature Range	T _J	-55 to +125							
Storage Temperature Range	Tstg	-55 to +125							

G

NOTES:

version: 02

1- Measured at 1 MH_z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance from Junction to Ambient 0.375" (9.5mm) lead length P.C.B. Mounted.

3- Reverse Recovery Test Conditions : I_F =.5A , I_R =1A , I_{RR} =.25A.



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RATINGS AND CHARACTERISTIC CURVES

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

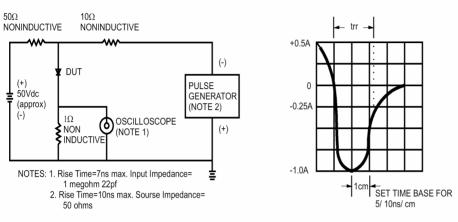


FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

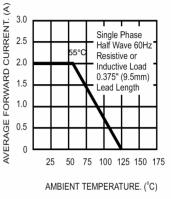
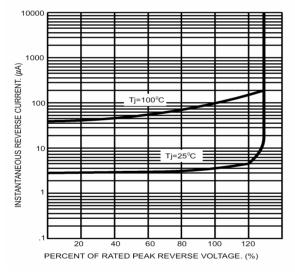


FIG.3- TYPICAL REVERSE CHARACTERISTICS



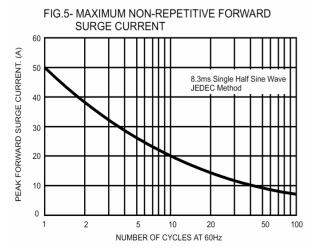


FIG.4- TYPICAL FORWARD CHARACTERISTICS

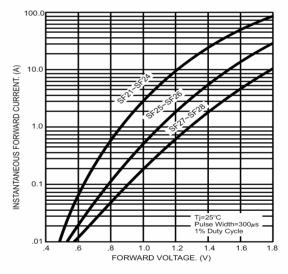
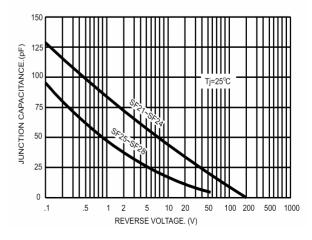


FIG.6- TYPICAL JUNCTION CAPACITANCE



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