

SF31G THRU SF38G

Superfast Recovery Rectitiers

FEATURES

- · Glass Passivated chip junction
- · 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-201AD

Epoxy: UL 94V-O rate flame retardant

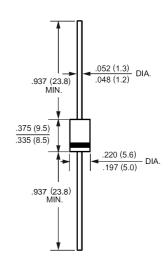
Lead: Axial leads, solderable per MIL-STD-202,

method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any Weight: 0.04ounce, 1.1gram

DO-201AD(DO-27)



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	SF31G	SF32G	SF33G	SF34G	SF35G	SF36G	SF38G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	650	Volts
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	450	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	650	Volts
Maximum Average Forward Rectified Current 375"(9.5mm) Lead Length at T _A =55	I _(AV)	3.0							Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM} 125								Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 3.0A DC and 25	V_{F}	0.95			1.25 1.7			Volts	
Maximum Reverse Current at T _A =25	I_R	5.0							uAmp
at Rated DC Blocking Voltage T _A =100	1R	500							
Typical Junction Capacitance (Note 1)	C_{J}	100			80			pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	20							/W
Maximum Reverse Recovery Time (Note 3)	T_{RR}	35							nS
Operating Junction Temperature Range	T_{J}	-55 to +150							
Storage Temperature Range	Tstg	-55 to +150							

NOTES:

- 1- Measured at 1 MHz 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 : $I_F \!\!=\! .5A$, $I_R \!\!=\! 1A$, $I_{RR} \!\!=\! .25A.$

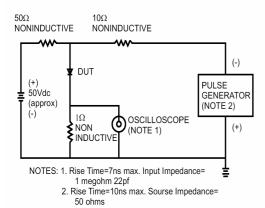


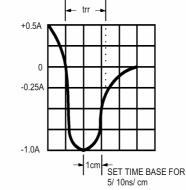
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RATINGS AND CHARACTERISTIC CURVES

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





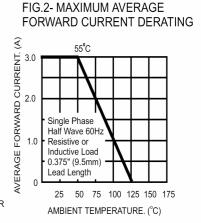
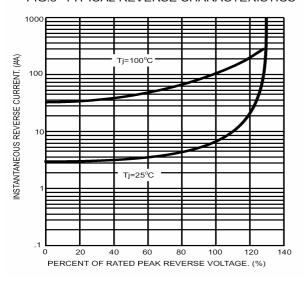
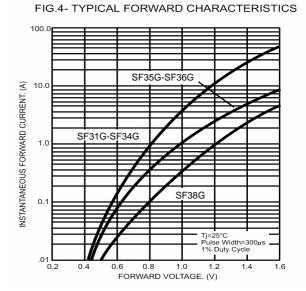
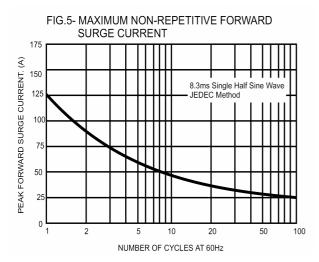
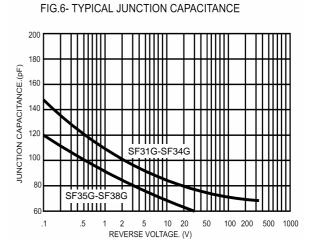


FIG.3- TYPICAL REVERSE CHARACTERISTICS









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