



Super Fast Rectifier Diodes

SF21 THRU SF28 50 to 600 V 2.0A

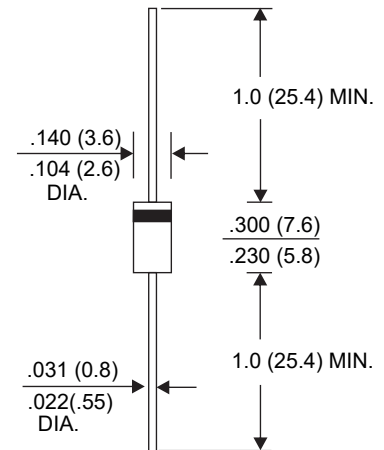
FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Fast Recovery times for high efficiency
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals

MECHANICAL DATA

- Case: Molded plastic, DO-15 or DO-214AC
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number

DO-15(DO-204AC)



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 or marks	Symbols	SF21	SF22	SF23	SF24	SF25	SF26	SF28	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	VRMS	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. Lead Length @Ta(Fig 1)	I(AV)	2.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	50							Amp
Maximum Forward Voltage @2.0A	VF	1.0				1.3		1.7	Volts
Maximum DC reverse current at Tj=25°C rated DC blocking voltage per Tj=100°C	IR	5.0 100							uAmp
Typical Thermal Resistance Tj =25°C	Rθ JA	45							°C/W
Maximum Reverse Recovery Time (Note 1)	TRR	35							nS
Typical Junction Capacitance (Note 2)	CJ	50				30			pF
Operating Temperature Range Tj	Tj	-55 to +125							°C
Storage Temperature Range TSTG	TSTG	-55 to +150							°C

Note:

1. Measured with $I_F=0.5A$, $I_R=1A$, $IRR=0.25A$.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
3. The typical data above is for reference only.

※ This product The above data sheet typical data meet the Mentioned standards, designers for reference only

Ordering Information (Example)

Prefered P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
DO-15 DO-204AC	T1	about 0.32	3000	3000	30000	Tape
	B1	about 0.32	500	500	25000	Bulk
	B2	about 0.32	500	500	20000	Bulk



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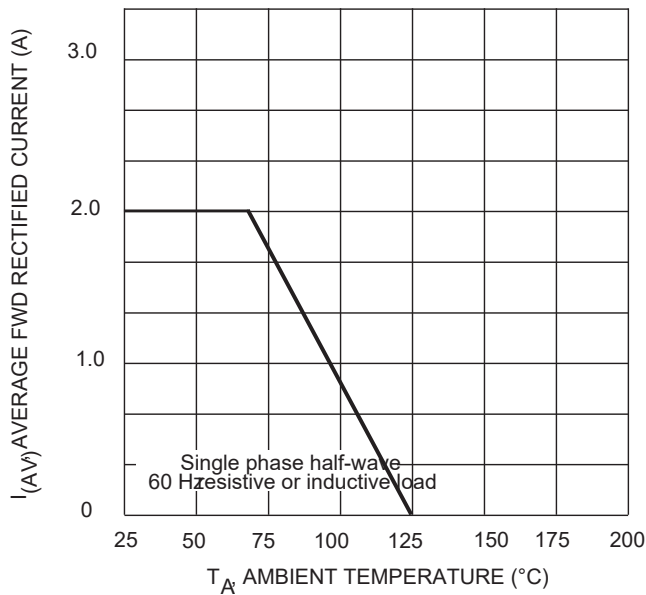


Fig. 1 Forward Derating Curve

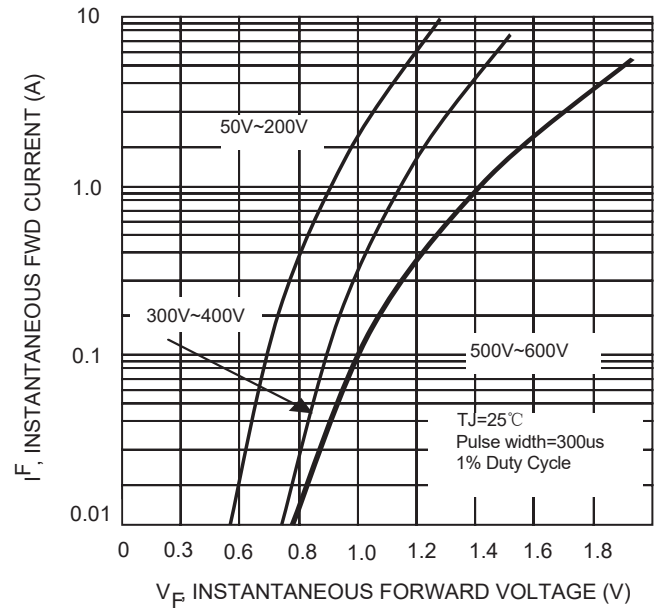


Fig. 2 Typical Forward Characteristics

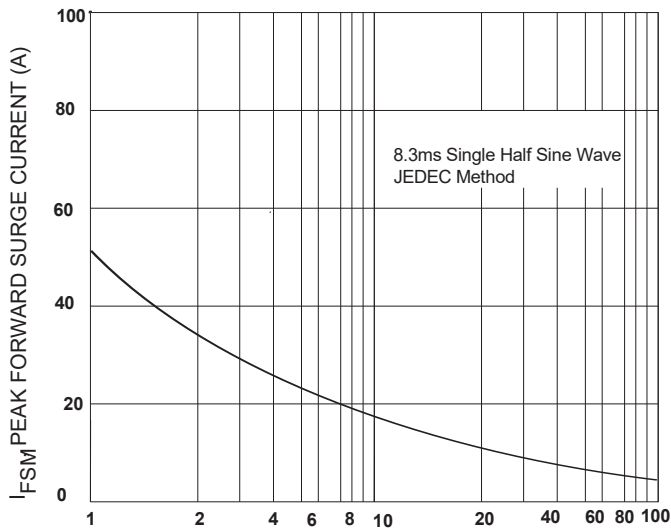


Fig. 3 Peak Forward Surge Current

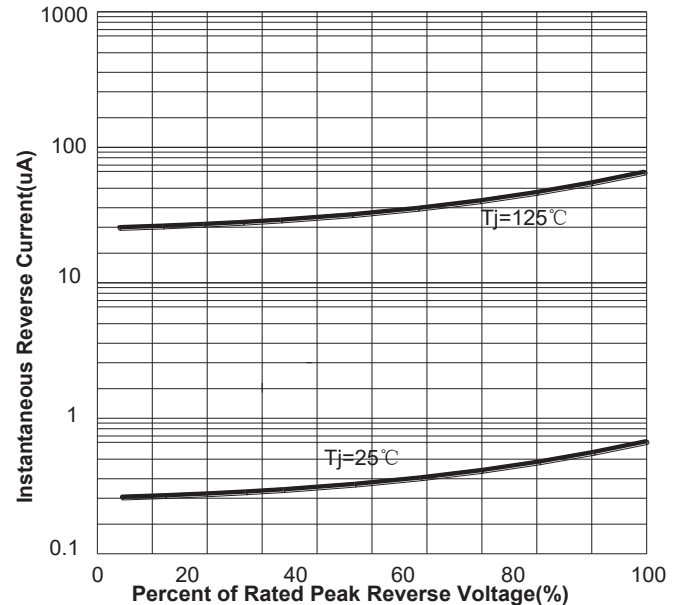
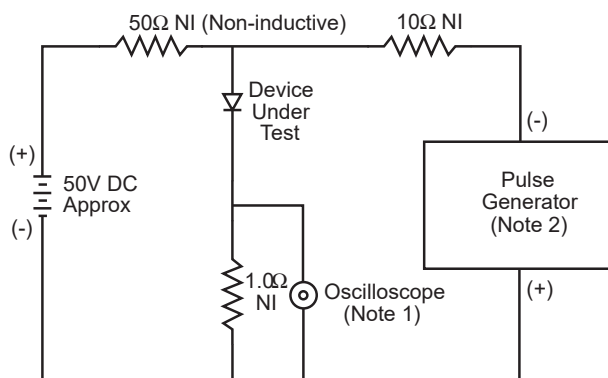


FIG4: Typical Reverse Characteristics



Notes:

1. Rise Time=7ns max. Input Impedance=1MΩ 22pf
2. Rise Time=10ns max. Source Impedance=50Ω

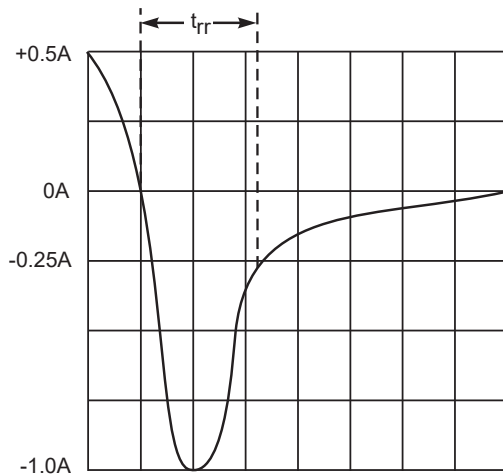


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit