

### FEATURES

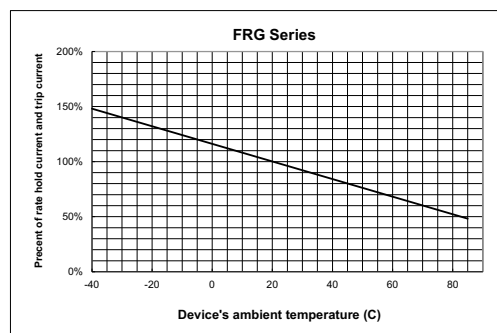
- Applications : Wide variety of electronic equipment
- Product Features : Very Low resistance, Very High hold current, Solid state
- Operation Current: 2.5A ~ 14.0A
- Maximum Voltage: 16Vdc
- Temperature Range: -40°C to 85°C

### AGENCY RECOGNITION

Made for RFE by UL shop Fuzetec

- UL (E211981)
- C-UL (E211981)
- TÜV (R50004084)

### THERMAL DERATING CURVE



### ELECTRICAL CHARACTERISTICS (23°C)

Part Number	Hold Current	Trip Current	Max. Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance	
	I <sub>H</sub> , A	I <sub>T</sub> , A	at 5 x I <sub>H</sub> , S	I <sub>MAX</sub> , A	V <sub>MAX</sub> , Vdc	P <sub>d</sub> , W	R min Ohms	R1 max Ohms
FRG250-16F	2.50	4.70	5.0	100	16	1.0	0.022	0.053
FRG300-16F	3.10	5.10	2.0	100	16	2.3	0.034	0.105
FRG400-16F	4.00	6.80	3.5	100	16	2.4	0.020	0.063
FRG500-16F	5.00	8.50	3.6	100	16	2.6	0.014	0.044
FRG600-16F	6.00	10.20	5.8	100	16	2.8	0.009	0.033
FRG700-16F	7.00	11.90	8.0	100	16	3.0	0.006	0.021
FRG800-16F	8.00	13.60	9.0	100	16	3.0	0.005	0.018
FRG900-16F	9.00	15.30	12.0	100	16	3.3	0.004	0.015
FRG1000-16F	10.00	17.00	12.5	100	16	3.3	0.003	0.012
FRG1100-16F	11.00	18.70	13.5	100	16	3.7	0.003	0.010
FRG1200-16F	12.00	20.40	16.0	100	16	4.2	0.002	0.009
FRG1400-16F	14.00	23.80	20.0	100	16	4.6	0.002	0.008

I<sub>H</sub>=Hold current-maximum current at which the device will not trip at 23°C still air.  
I<sub>T</sub>=Trip current-maximum current at which the device will always trip at 23°C still air.  
V<sub>MAX</sub>=Maximum voltage device can withstand without damage at its rated current.  
I<sub>MAX</sub>=Maximum fault current device can withstand without damage at rated voltage (V<sub>MAX</sub>).  
P<sub>d</sub>=Typical power dissipated from device when in the tripped state in 23°C still air environment.  
R<sub>MIN</sub>=Minimum device resistance at 23°C.  
R1<sub>MAX</sub>=Maximum device resistance at 23°C, 1 hour after tripping.

Physical specifications:

Lead material: FRG250 Tin plated copper, 24 AWG.  
FRG300 ~ FRG1100 Tin plated copper, 20 AWG  
FRG1200 ~ FRG1400 Tin plated copper, 18 AWG  
Soldering characteristics: MIL-STD-202, Method 208E.  
Insulating coating: Flame retardant epoxy, meet UL-94V-0 requirement.

**NOTE: All Specifications subject to change without notice.**

■ **DIMENSIONS (mm)**

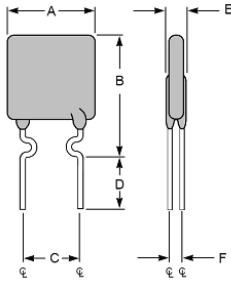


Fig. 1  
Lead Size: 24AWG  
φ 0.51 mm Diameter

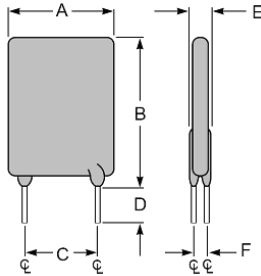


Fig. 2  
Lead Size: 20AWG  
φ 0.81 mm Diameter

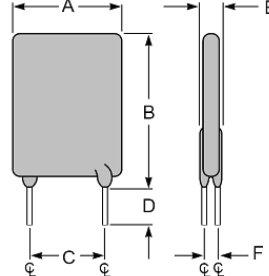
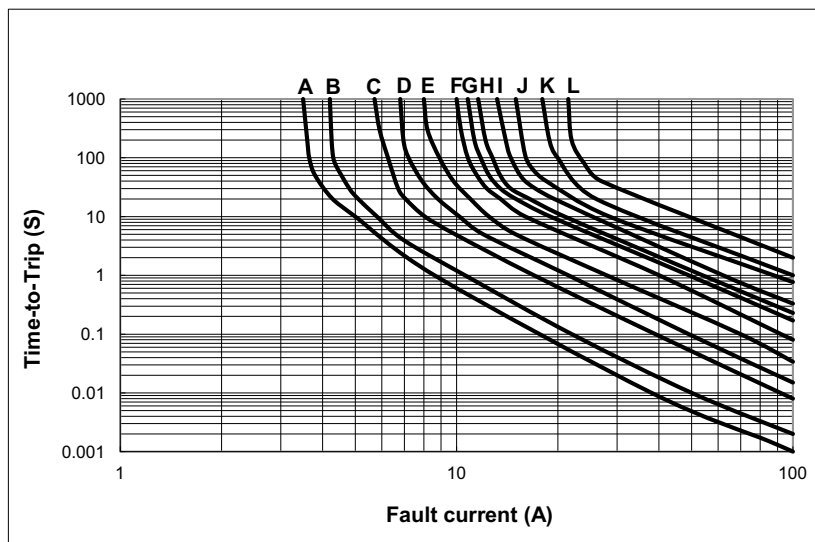


Fig. 3  
Lead Size: 18AWG  
φ 1.0 mm Diameter

Part Number	Fig.	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
FRG250-16F	1	8.90	12.8	5.1	7.6	3.0	1.2
FRG300-16F	2	7.10	11.0	5.1	7.6	3.0	1.2
FRG400-16F	2	8.90	12.8	5.1	7.6	3.0	1.2
FRG500-16F	2	10.40	14.3	5.1	7.6	3.0	1.2
FRG600-16F	2	10.70	17.1	5.1	7.6	3.0	1.2
FRG700-16F	2	11.20	19.7	5.1	7.6	3.0	1.2
FRG800-16F	2	12.70	20.9	5.1	7.6	3.0	1.2
FRG900-16F	2	14.00	21.7	5.1	7.6	3.0	1.2
FRG1000-16F	2	16.50	24.1	5.1	7.6	3.0	1.2
FRG1100-16F	2	17.50	26.0	5.1	7.6	3.0	1.2
FRG1200-16F	3	17.50	28.0	10.2	7.6	3.6	1.4
FRG1400-16F	3	27.90	27.9	10.2	7.6	3.6	1.4

■ **TYPICAL TIME-TO-TRIP AT 23°C**

- A=FRG250-16F
- B=FRG300-16F
- C=FRG400-16F
- D=FRG500-16F
- E=FRG600-16F
- F=FRG700-16F
- G=FRG800-16F
- H=FRG900-16F
- I=FRG1000-16F
- J=FRG1100-16F
- K=FRG1200-16F
- L=FRG1400-16F



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