

FEATURES

- Very high hold current, Solid state Radial-leaded
- Product ideal for up to 16Vdc
- Application: Wide variety of electronic equipment
- Operation Current: 3A ~ 14A
- Maximum Voltage: 16V
- Temperature Range: -40°C to 85°C

AGENCY RECOGNITION

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

ELECTRICAL CHARACTERISTIC (23°C)

Part Number	Hold Current	Trip Current	Maximum time to trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
	I _H , A	I _T , A	at 5xI _H , sec	I _{MAX} , A	V _{MAX} , Vdc	P _d , W	R _{MIN}	R _{1MAX}
							OHMS	OHMS
FRG250-16F	2.5	4.7	5.0	100	16	1.0	0.022	0.053
FRG300-16F	3.00	5.1	2.0	100	16	2.3	0.034	0.105
FRG400-16F	4.0	6.8	3.5	100	16	2.4	0.020	0.063
FRG500-16F	5.0	8.5	3.6	100	16	2.6	0.014	0.044
FRG600-16F	6.0	10.2	5.8	100	16	2.8	0.009	0.033
FRG700-16F	7.0	11.9	8.0	100	16	3.0	0.006	0.021
FRG800-16F	8.0	13.6	9.0	100	16	3.0	0.005	0.018
FRG900-16F	9.0	15.3	12.0	100	16	3.3	0.004	0.015
FRG1000-16F	10.0	17.0	12.5	100	16	3.3	0.003	0.012
FRG1100-16F	11.0	18.7	13.5	100	16	3.7	0.003	0.010
FRG1200-16F	12.0	20.4	16.0	100	16	4.2	0.002	0.009
FRG1400-16F	14.0	23.8	20.0	100	16	4.6	0.002	0.009

I_H=Hold current-maximum current at which the device will not trip at 23°C still air.

I_T=Trip current-maximum current at which the device will always trip at 23°C still air.

V_{MAX}=Maximum voltage device can withstand without damage at its rated current.

I_{MAX}=Maximum fault current device can withstand without damage at rated voltage (V_{MAX}).

P_d=Typical power dissipated from device when in the tripped state in 23°C still air environment.

R_{MIN}=Minimum device resistance at 23°C.

R_{1MAX}=Maximum device resistance at 23°C, 1 hour after tripping.

Physical specifications:

Lead material: FRG300~FRG1100 Tin plated copper, 20 AWG

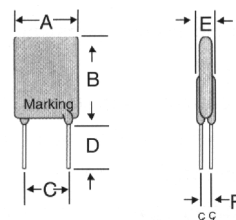
FRG1200~FRG1400 Tin plated copper, 18AWG.

Soldering characteristics: MIL-STD-202, Method 208E.

Insulating coating: Flame retardant epoxy, meet UL-94V-0 requirement.

FRG PRODUCT DIMENSIONS (MILLIMETERS)

Part Number	A	B	C	D	E	F
	Maximum	Maximum	Typical	Minimum	Maximum	Typical
FRG250-16F	8.9	12.8	5.1	7.6	3.0	1.2
FRG300-16F	7.1	11.0	5.1	7.6	3.0	1.2
FRG400-16F	8.9	12.8	5.1	7.6	3.0	1.2
FRG500-16F	10.4	14.3	5.1	7.6	3.0	1.2
FRG600-16F	10.7	17.1	5.1	7.6	3.0	1.2
FRG700-16F	11.2	19.7	5.1	7.6	3.0	1.2
FRG800-16F	12.7	20.9	5.1	7.6	3.0	1.2
FRG900-16F	14.0	21.7	5.1	7.6	3.0	1.2
FRG1000-16F	16.5	24.1	5.1	7.6	3.0	1.2
FRG1100-16F	17.5	26.0	5.1	7.6	3.0	1.2
FRG1200-16F	17.5	28.0	10.2	7.6	3.6	1.4
FRG1400-16F	27.9	27.9	10.2	7.6	3.4	1.4

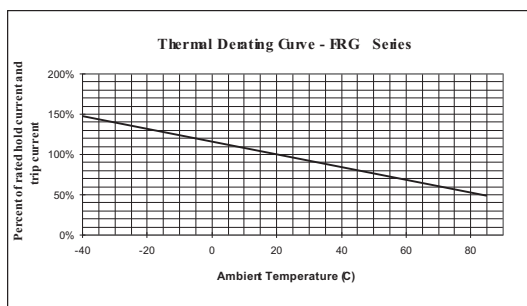


FRG300-16 ~ FRG1100-16
 Lead Size: 20AWG (0.81mm)

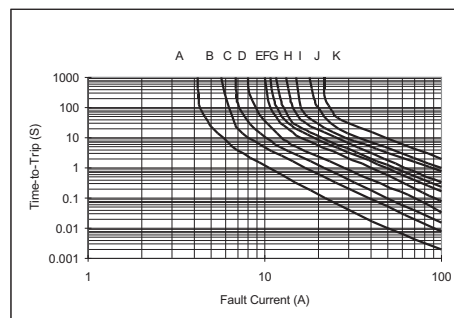
FRG1200-16 ~ FRG1400-16
 Lead Size: 18AWG (1mm)

FRG250-16f has kink standoff
 Dimension B is from seating plane to top

THERMAL DERATING CURVE



TYPICAL TIME-TO-TRIP AT 23°C



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

NOTE: All Specification subject to change without notice.