

FEATURES

- Low hold current, Solid state, Radial-leaded product ideal for up to 120VDC/120VAC
- Application: Wide variety of electronic equipment
- Operation Current: 100mA ~ 3.75A
- Maximum Voltage: 120VDC/120VAC
- Temperature Range: -40°C to 85°C

ALSO SEE FRV AND FRVL SERIES

ELECTRICAL CHARACTERISTICS (23°C)

Part Number	Hold Current I _H , A	Trip Current I _T , A	Maximum time to trip at 5xI _H , sec	Maximum Current I _{MAX} , A	Rated Voltage V _{MAX} , Vdc	Typical Power Pd, W	Resistance Tolerance	
							R _{MIN} OHMS	R _{1MAX} OHMS
FRA010-120F	0.10	0.20	4.0	2.0	120	0.57	2.50	7.50
FRA017-120F	0.17	0.34	3.0	2.0	120	0.59	2.00	7.00
FRA020-120F	0.20	0.40	2.2	2.0	120	0.62	1.83	4.40
FRA025-120F	0.25	0.50	2.5	3.0	120	0.68	1.25	3.00
FRA030-120F	0.30	0.60	3.0	3.0	120	0.74	0.88	2.10
FRA040-120F	0.40	0.80	3.8	3.0	120	0.84	0.55	1.29
FRA050-120F	0.50	1.00	4.0	3.0	120	1.16	0.50	1.17
FRA065-120F	0.65	1.30	5.3	3.0	120	1.32	0.31	0.72
FRA075-120F	0.75	1.50	6.3	5.0	120	1.38	0.25	0.60
FRA090-120F	0.90	1.80	7.2	5.0	120	1.49	0.20	0.47
FRA110-120F	1.10	2.20	8.2	5.0	120	2.25	0.15	0.38
FRA135-120F	1.35	2.70	9.6	8.0	120	2.55	0.12	0.30
FRA160-120F	1.60	3.20	11.4	8.0	120	2.85	0.09	0.22
FRA185-120F	1.85	3.70	12.6	8.0	120	3.15	0.08	0.19
FRA250-120F	2.50	5.00	15.6	12.0	120	3.75	0.05	0.13
FRA300-120F	3.00	6.00	19.8	15.0	120	4.20	0.04	0.10
FRA375-120F	3.75	7.50	24.0	15.0	120	4.80	0.03	0.08

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}).

Pd=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: FRA010~FRA090 Tin plated copper, 22AWG.

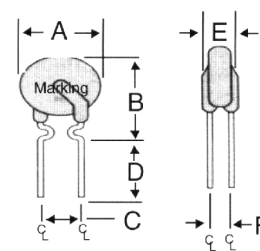
FRA110~FRA375 Tin plated copper, 20 AWG.

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

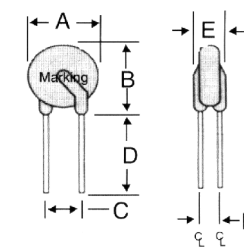
Insulating coating: Flame retardant epoxy, meet UL-94V-0 requirement.

FRA PRODUCT DIMENSIONS (MILLIMETERS)

Part Number	A	B	C	D	E	F
	Maximum	Maximum	Typical	Minimum	Maximum	Typical
FRA010-120F	7.9	12.7	5.1	7.6	5.0	3.0
FRA017-120F	7.9	12.7	5.1	7.6	5.0	3.0
FRA020-120F	7.9	12.2	5.1	7.6	5.0	3.0
FRA025-120F	7.9	12.7	5.1	7.6	5.0	3.0
FRA030-120F	7.9	13.0	5.1	7.6	5.0	3.0
FRA040-120F	8.2	14.2	5.1	7.6	5.0	3.0
FRA050-120F	9.2	14.9	5.1	7.6	5.0	3.0
FRA065-120F	9.7	14.9	5.1	7.6	5.0	3.0
FRA075-120F	10.6	15.5	5.1	7.6	5.0	3.0
FRA090-120F	11.9	15.9	5.1	7.6	5.0	3.0
FRA110-120F	13.3	18.3	5.1	7.6	5.0	3.0
FRA135-120F	15.5	20.6	5.1	7.6	5.0	3.0
FRA160-120F	17.5	22.5	5.1	7.6	5.0	3.0
FRA185-120F	19.9	24.9	5.1	7.6	5.0	3.0
FRA250-120F	22.5	27.5	10.2	7.6	5.0	3.0
FRA300-120F	25.5	30.0	10.2	7.6	5.0	3.0
FRA375-120F	29.5	34.0	10.2	7.6	5.0	3.0

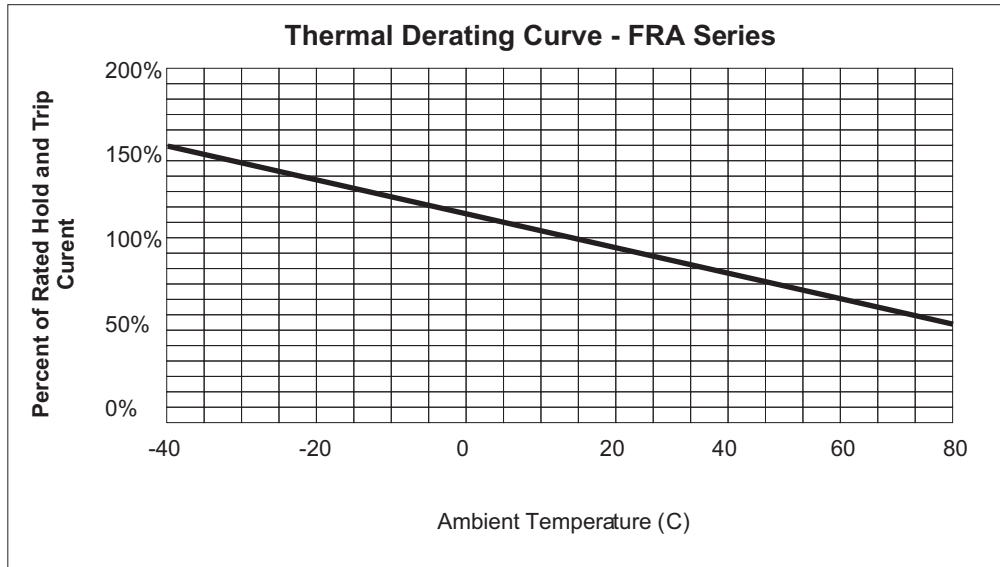


FRA 010-120 ~ FRA 090-120
Lead Size: 22AWG (0.65mm)

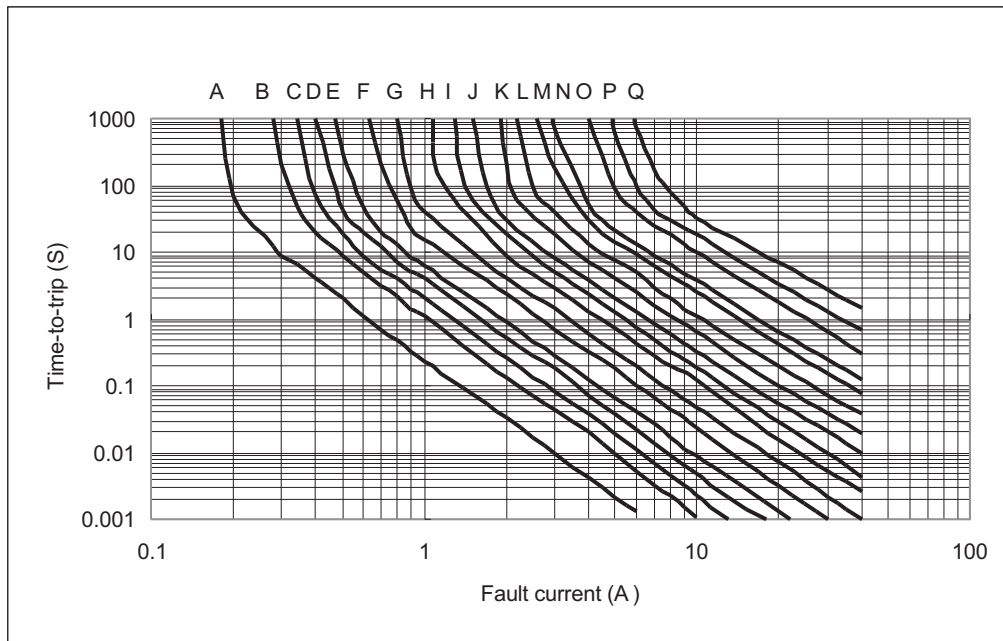


FRA 110-120 ~ FRA 375-120
Lead Size: 20AWG (0.81mm)

■ THERMAL DERATING CURVE



■ TYPICAL TIME-TO-TRIP AT 23°C



- A = FRA010-120F
- B = FRA017-120F
- C = FRA020-120F
- D = FRA025-120F
- E = FRA030-120F
- F = FRA040-120F
- G = FRA050-120F
- H = FRA065-120F
- I = FRA075-120F
- J = FRA090-120F
- K = FRA110-120F
- L = FRA135-120F
- M = FRA160-120F
- N = FRA185-120F
- O = FRA250-120F
- P = FRA300-120F
- Q = FRA375-120F

NOTE: All specification subject to change without notice.