

**FEATURES**

- Low resistance, High hold current, Solid state
- Radial-leaded product ideal for up to 30V
- Application: Wide variety of electronic equipment
- Operation Current: 900mA ~ 9A
- Maximum Voltage: 30V
- Temperature Range: -40°C to 85°C

**AGENCY RECOGNITION**

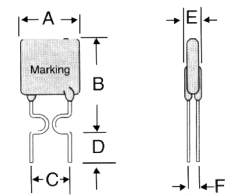
- UL(E211981)
- C-UL(E211981)
- TÜV(R3-50004084)

**ELECTRICAL CHARACTERISTICS (23°C)**

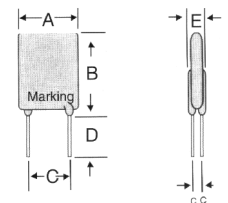
Part Number	Hold Current	Trip Current	Max. Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
	I <sub>H</sub> , A	I <sub>T</sub> , A	at 5xI <sub>H</sub> , S	I <sub>MAX</sub> , A	V <sub>MAX</sub> , V <sub>DC</sub>		R <sub>MIN</sub>	R <sub>1MAX</sub>
							OHMS	OHMS
FRU090-30F	0.90	1.80	5.9	40.0	30	0.6	0.070	0.22
FRU110-30F	1.10	2.20	6.6	40.0	30	0.7	0.050	0.17
FRU135-30F	1.35	2.70	7.3	40.0	30	0.8	0.040	0.13
FRU160-30F	1.60	3.20	8.0	40.0	30	0.9	0.030	0.11
FRU185-30F	1.85	3.70	8.7	40.0	30	1.0	0.030	0.09
FRU250-30F	2.50	5.00	10.3	40.0	30	1.2	0.020	0.07
FRY300-30F	3.00	6.00	10.8	40.0	30	2.0	0.020	0.08
FRU400-30F	4.00	8.00	12.7	40.0	30	2.5	0.010	0.05
FRU500-30F	5.00	10.00	14.5	40.0	30	3.0	0.010	0.05
FRU600-30F	6.00	12.00	16.0	40.0	30	3.5	0.005	0.04
FRU700-30F	7.00	14.00	17.5	40.0	30	3.8	0.005	0.03
FRU800-30F	8.00	16.00	18.8	40.0	30	4.0	0.005	0.02
FRU900-30F	9.00	18.00	20.0	40.0	30	4.2	0.005	0.02

**FRU PRODUCT DIMENSIONS (MILLIMETERS)**

Part Number	A Maximum	B Maximum	C Typical	D Minimum	E Maximum	F Maximum
FRU090-30F	7.4	12.2	5.1	7.6	3.0	0.9
FRU110-30F	7.4	14.2	5.1	7.6	3.0	0.9
FRU135-30F	8.9	13.5	5.1	7.6	3.0	0.9
FRU160-30F	8.9	15.2	5.1	7.6	3.0	0.9
FRU185-30F	10.2	15.7	5.1	7.6	3.0	0.9
FRU250-30F	11.4	18.3	5.1	7.6	3.0	0.9
FRY300-30F	11.4	17.3	5.1	7.6	3.0	1.2
FRU400-30F	14.0	20.1	5.1	7.6	3.0	1.2
FRU500-30F	14.0	24.9	10.2	7.6	3.0	1.2
FRU600-30F	16.5	24.9	10.2	7.6	3.0	1.2
FRU700-30F	19.1	26.7	10.2	7.6	3.0	1.2
FRU800-30F	21.6	29.2	10.2	7.6	3.0	1.2
FRU900-30F	24.1	29.7	10.2	7.6	3.0	1.2



FRU 090-30 ~ FRU 250-30  
Lead Size: 24AWG (0.51mm)



FRU 300-30 ~ FRU 900-30  
Lead Size: 20AWG (0.81mm)

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>).  
 Pd=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.  
 R<sub>1MAX</sub>=Maximum device resistance at 23°C, 1 hour after tripping.

Physical specifications:

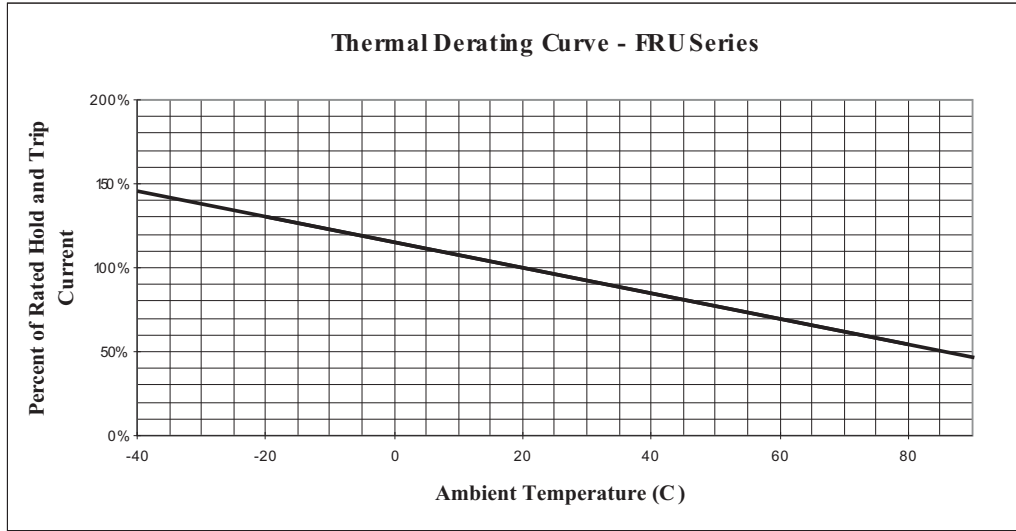
Lead material: FRU090~FRU250 Tin plated copper, 24AWG.

FRU300~FRU900 Tin plated copper, 20AWG.

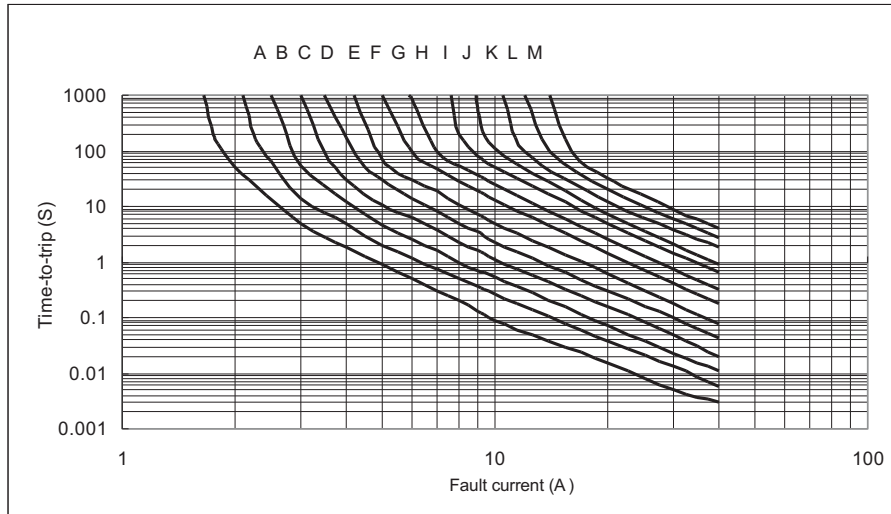
Soldering characteristics: MIL-STD-202, Method 208E.

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

■ THERMAL DERATING CURVE



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- A= FRU090-30
- B= FRU110-30
- C= FRU135-30
- D= FRU160-30
- E= FRU185-30
- F= FRU250-30
- G= FRU300-30
- H= FRU400-30
- I= FRU500-30
- J= FRU600-30
- K= FRU700-30
- L= FRU800-30
- M= FRU900-30

NOTE: All Specification subject to change without notice.