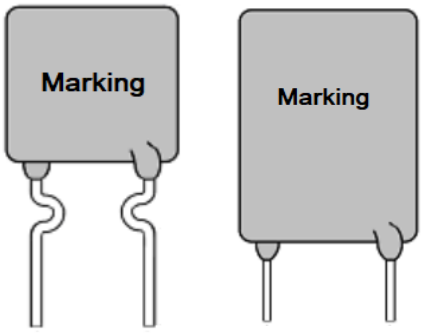
Product Features: Low resistance, High hold current, Solid state, Radial leaded product ideal for up to $30V_{DC}$

Operation Current: 0.9A~9.0A

Maximum Voltage: $30V_{DC}$

Temperature Range : -40℃ to 85℃

Applications: Wide variety of electronic equipment



Lead Size: 24AWG **Lead Size: 20AWG**

Electrical Characteristics (23℃)

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Max Time to Trip	Resistance	
							R_{MIN}	R_{1MAX}
	I_H, A	I_T, A	V_{MAX}, V_{DC}	I_{MAX}, A	Pd, W	at 5xI_H, s	Ohms	Ohms
FRU090-30	0.90	1.80	30	100	0.6	5.9	0.070	0.220
FRU110-30	1.10	2.20	30	100	0.7	6.6	0.050	0.170
FRU135-30	1.35	2.70	30	100	0.8	7.3	0.040	0.130
FRU160-30	1.60	3.20	30	100	0.9	8.0	0.030	0.110
FRU185-30	1.85	3.70	30	100	1.0	8.7	0.020	0.090
FRU250-30	2.40	5.00	30	100	1.2	10.3	0.020	0.070
FRU300-30	3.00	6.00	30	100	2.0	10.8	0.010	0.080
FRU400-30	4.00	8.00	30	100	2.5	12.7	0.010	0.050
FRU500-30	5.00	10.00	30	100	3.0	14.5	0.005	0.050
FRU600-30	6.00	12.00	30	100	3.5	16.0	0.005	0.040
FRU700-30	7.00	14.00	30	100	3.8	17.5	0.005	0.030
FRU800-30	8.00	16.00	30	100	4.0	18.8	0.005	0.020
FRU900-30	9.00	18.00	30	100	4.0	20.0	0.005	0.020

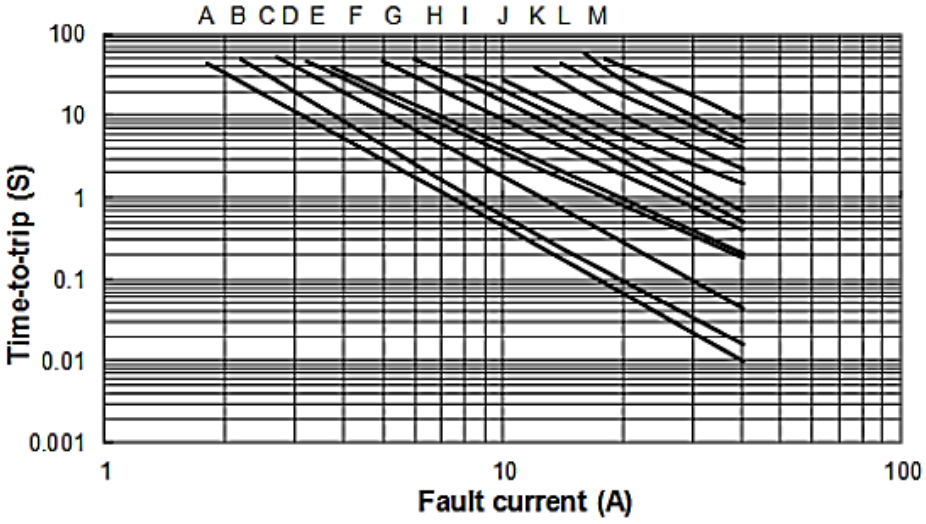
I_H=Hold current-maximum current at which the device will not trip at 23℃ still air.
I_T=Trip current-minimum current at which the device will always trip at 23℃ still air.
V_{MAX}=Maximum voltage device can withstand without damage at its rated current.
I_{MAX}= Maximum fault current device can withstand without damage at rated voltage (V MAX).
Pd=Typical power dissipated from device when in tripped state in 23℃ still air environment.
R_{MIN}=Minimum device resistance at 23℃
$R1_{MAX}$=Maximum device resistance at 23℃, 1 hour after tripping .

Thermal Derating for PPTC Device at Various Ambient Temperatures

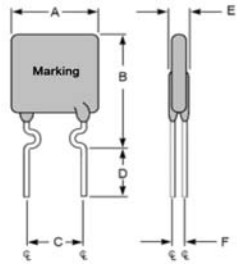
Temperatures	-40℃	-20℃	0℃	23℃	30℃	40℃	50℃	60℃	70℃	85℃
Current Derating %	145%	130%	115%	100%	92%	85%	78%	80%	62%	50%

Typical Time-To-Trip at 23℃

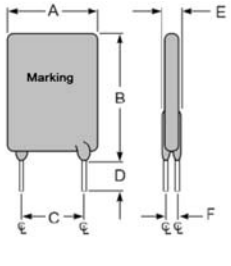
A = FRU090-30
B = FRU110-30
C = FRU135-30
D = FRU160-30
E = FRU185-30
F = FRU250-30
G = FRU300-30
H = FRU400-30
I = FRU500-30
J = FRU600-30
K = FRU700-30
L = FRU800-30
M= FRU900-30



Product Dimensions (Millimeters)



FRU090-FRU250
Lead Size: 24AWG
Φ0.51mm Diameter



FRU300-FRU900
Lead Size: 20AWG
Φ0.81mm Diamete

Part Number	A	B	C	D	E	F
	Max	Max	Typ	Min	Max	Typ
FRU090-30	7.4	12.2	5.1	7.6	3.0	0.9
FRU110-30	7.4	14.2	5.1	7.6	3.0	0.9
FRU135-30	8.9	13.5	5.1	7.6	3.0	0.9
FRU160-30	8.9	15.2	5.1	7.6	3.0	0.9
FRU185-30	10.2	15.7	5.1	7.6	3.0	0.9
FRU250-30	11.4	18.3	5.1	7.6	3.0	0.9
FRU300-30	11.4	17.3	5.1	7.6	3.0	1.2
FRU400-30	14.0	20.1	5.1	7.6	3.0	1.2
FRU500-30	14.0	24.9	10.2	7.6	3.0	1.2
FRU600-30	16.5	24.9	10.2	7.6	3.0	1.2
FRU700-30	19.1	26.7	10.2	7.6	3.0	1.2
FRU800-30	21.6	29.2	10.2	7.6	3.0	1.2
FRU900-30	24.1	29.7	10.2	7.6	3.0	1.2

Terminal Pad Materials:

Tin-Plated copper clad steel
FRU090-250 : 24 AWG
FRU300-900 : 20 AWG

Terminal Pad Solderability:

MIL-STD-202, Method 208E
Flame retardant epoxy, meet UL-94V-0 requirement