

FEATURES

RoHS Compliant
 Application: Wide variety of electronic equipment
 Solid state, Radial leaded product ideal for up to 120V_{AC/DC}
 Operation Current: 0.10A ~ 2.00A
 Maximum Operating Voltage: 120V_{AC/DC}
 Temperature Range: -40°C to 85°C

AGENCY RECOGNITION

- UL (E211981)
- C-UL (E211981)
- TUV (R50122733)

ELECTRICAL CHARACTERISTICS (23°C)

Part Number	Hold Current	Trip Current	Max. Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
	I _H , A	I _T , A	at 5xI _H , S	I _{MAX} , A	V _{MAX} , V _{AC/DC}	P _d , W	R _{MIN} OHMS	R _{1MAX} OHMS
FRVL010-120F	0.10	0.20	10.0	2.0	120	0.84	2.50	7.50
FRVL075-120F	0.75	1.50	15.0	7.5	120	2.64	0.25	0.69
FRVL135-120F	1.35	2.70	20.0	13.5	120	3.12	0.11	0.30
FRVL160-120F	1.60	3.20	11.4	12.0	120	3.12	0.09	0.22
FRVL185-120F	1.85	3.70	12.6	12.0	120	3.36	0.08	0.19
FRVL200-120F	2.00	4.20	36.0	20.0	120	4.32	0.08	0.21

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

I_T=Trip current-minimum 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: FRVL010-120F Tin plated copper, 24AWG.

FRVL075-120F ~ FRVL200-120F Tin plated copper, 20AWG.

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

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

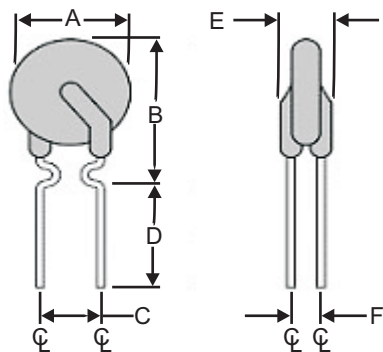


Figure 1
 Lead Size: 24AWG
 Φ 0.51 mm Diameter

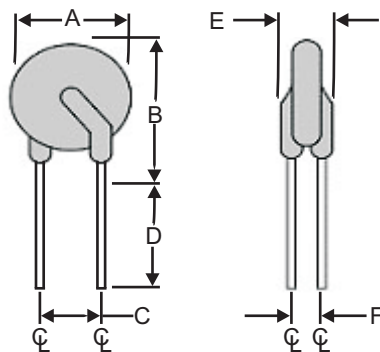


Figure 2
 Lead Size: 20AWG
 Φ 0.81 mm Diameter

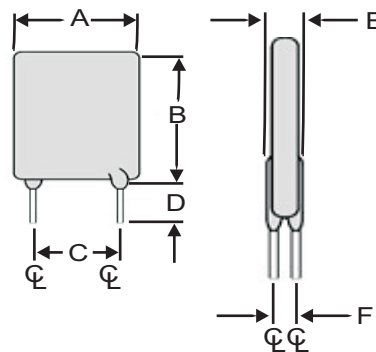
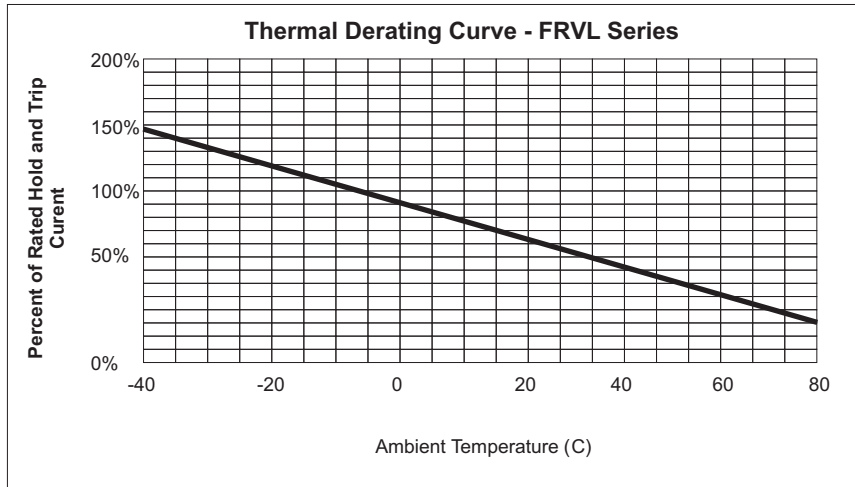


Figure 3
 Lead Size: 20AWG
 Φ 0.81 mm Diameter

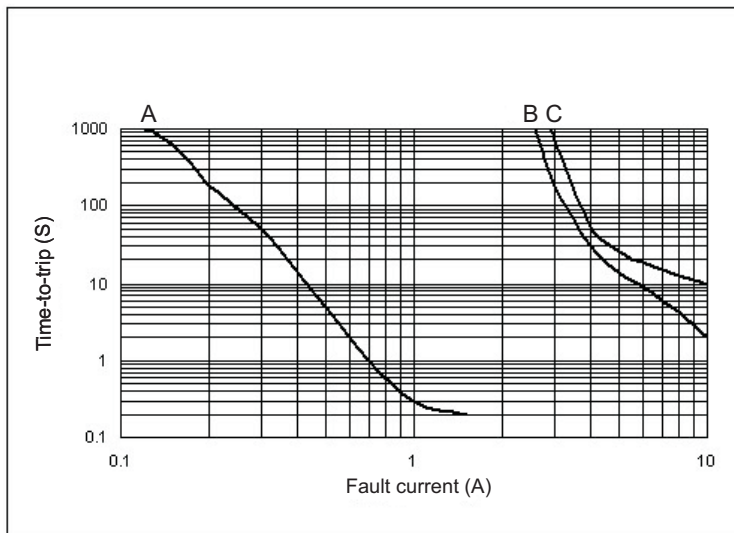
FRVL PRODUCT DIMENSIONS (MILLIMETERS)

Part Number	A	B	C	D	E	F	Figure
	Maximum	Maximum	Typical	Minimum	Maximum	Typical	
FRVL010-120F	7.9	13	5.1	7.6	3.8	2.2	1
FRVL075-120F	10.9	17	5.1	7.6	4.1	2.2	3
FRVL135-120F	16.3	21.7	5.1	7.6	4.1	2.2	3
FRVL160-120F	17.5	22.5	5.1	7.6	4.1	2.2	2
FRVL185-120F	19.9	24.9	5.1	7.6	4.1	2.2	2
FRVL200-120F	23.5	27.9	10.2	7.6	4.1	2.2	3

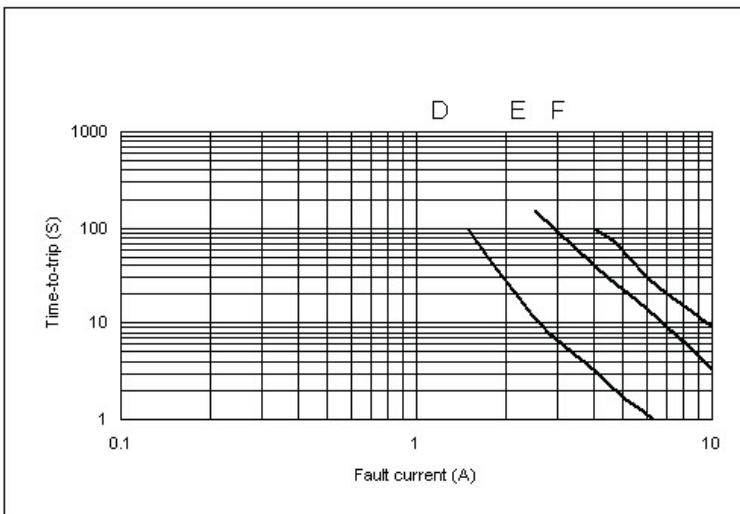
■ **THERMAL DERATING CURVE**



■ **TYPICAL TIME-TO-TRIP AT 23°C**



A = FRVL010 ~ 120F
B = FRVL160 ~ 120F
C = FRVL185 ~ 120F



D = FRVL075 ~ 120F
E = FRVL135 ~ 120F
F = FRVL200 ~ 120F

NOTE: All specifications subject to change without notice.