

Application:

Telecommunication and Data transmitting

Product Features:

Low hold current, Solid state

Radial-leaded product ideal for up to 60V/600V

Operation Current: 0.08 A~0.18A

Maximum Voltage: 60V/250V/600V

Temperature Range: -40°C to 85°C

Agency Approvals: UL, C-UL & TUV pending

Electrical Characteristics(23°C)

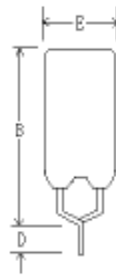
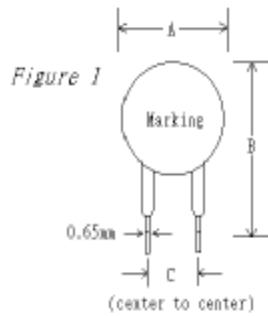
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Part Number	Hold Current I _H ,A	Maximum Current I _{MAX} , A	Max Oper. Voltage V _{O-MAX} , Vdc	Max Int. Voltage V _{I-MAX} ,V	Resistance Tolerance	
					R _{MIN} Ω	R _{1MAX} Ω
FRH080-250U	0.08	3.0	60	250	14.0	33.0
FRH080-250	0.08	3.0	60	250	14.0	33.0
FRH110-250U	0.11	3.0	60	250	5.0	16.0
FRH110-250	0.11	3.0	60	250	5.0	16.0
FRH120-250U	0.12	3.0	60	250	6.0	16.0
FRH120-250	0.12	3.0	60	250	4.0	16.0
FRH145-250U	0.15	3.0	60	250	3.5	12.0
FRH145-250	0.15	3.0	60	250	3.0	12.0
FRH180-250U	0.18	10.0	60	250	0.8	4.0
FRH180-250	0.18	10.0	60	250	0.8	4.0
FRH150-600	0.15	3.0	60	600	6.0	22.0
FRH160-600	0.16	3.0	60	600	4.0	18.0

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: FRH080~FRH110 Tin plated copper,22 AWG.
 FRH120~FRH180 Tin plated copper,20 AWG.
 Soldering characteristics:MIL-STD-202, Method 208E.
 Insulating coating:Flame retardant epoxy ,meet UL-94V-O requirement.



FRH Product Dimensions (millimeters)

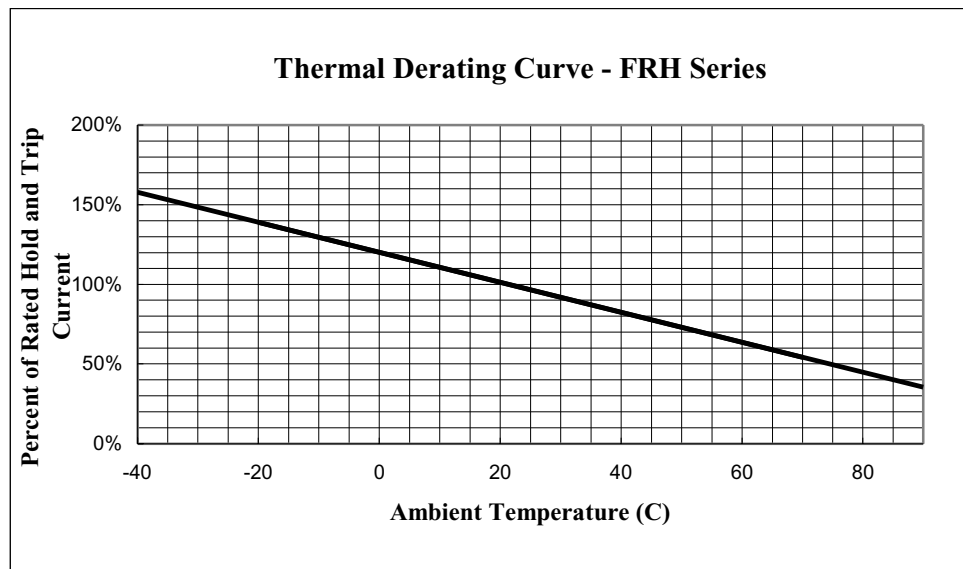


Lead Size :22AWG,
Φ 0.65 mm Diameter

Lead Size : 20AWG,
Φ 0.65 mm Diameter

Part Number	Fig	A	B	C	D	E
		Maximum	Maximum	Typical	Minimum	Maximum
FRH080-250U	1	4.8	9.1	5.0	4.7	3.8
FRH080-250	1	5.3	9.6	5.0	4.7	4.6
FRH110-250U	1	5.3	9.4	5.0	4.7	3.8
FRH110-250	1	5.8	9.9	5.0	4.7	4.6
FRH120-250U	2	6.0	10.0	5.0	4.7	3.8
FRH120-250	2	6.5	11.0	5.0	4.7	4.6
FRH145-250U	2	6.0	10.0	5.0	4.7	3.8
FRH145-250	2	6.5	11.0	5.0	4.7	4.6
FRH180-250U	2	10.4	12.6	5.0	4.7	3.8
FRH180-250	2	10.9	13.6	5.0	4.7	4.6
FRH150-600	2	13.5	12.6	5.0	4.7	6.0
FRH160-600	2	16.0	12.6	5.0	4.7	6.0

Thermal Derating Curve

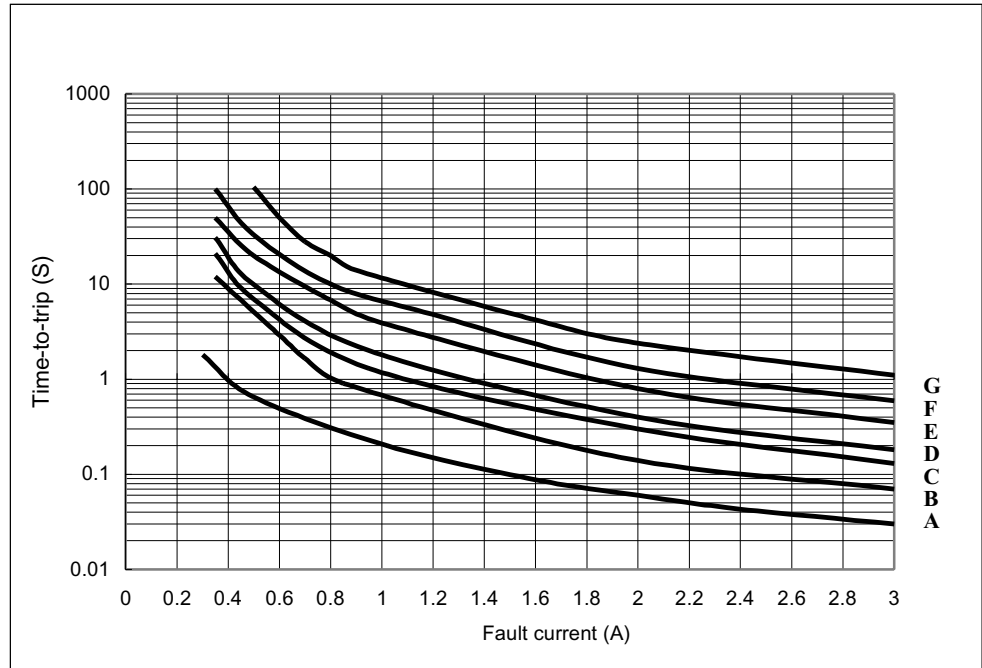




Typical Time-To-Trip at 23°C

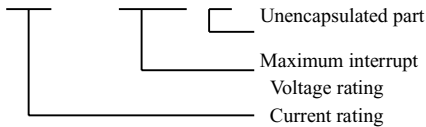
- A=FRH080(U) -250
- B=FRH110(U) -250
- C=FRH120(U) -250
- D=FRH145(U) -250
- E=FRH180(U) -250
- F=FRH150-600
- G=FRH160-600

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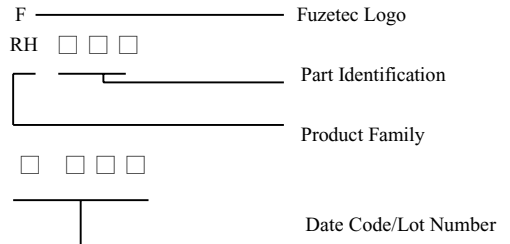
Part Numbering System

FRH □□□ - □□□ U



Example

Part Marking System



Standard Package

P/N	Pcs /Bag	Reel/Tape
FRH080-250U	300	1.5K
FRH080-250	300	1.5K
FRH110-250U	300	1.5K
FRH110-250	300	1.5K
FRH120-250U	300	1.5K
FRH120-250	300	1.5K

P/N	Pcs /Bag	Reel/Tape
FRH145-250U	300	1.5K
FRH145-250	300	1.5K
FRH180-250U	200	1.5K
FRH180-250	200	1.5K
FRH150-600	100	600
FRH160-600	100	600