

UBF RV240 Series (240V)

Electrical Characteristics

Part No Figure / Lead Option	I_{hold} (A)	I_{trip} (A)	V_{max} (V)	I_{max} (A)	P_d type (W)	Max. (A)	Time-to-trip (s)	R_{min} (Ω)	R_{1max} (Ω)
UBF RV240005 Fig. 1, $\emptyset 0.51$, Sn/CuFe	0.05	0.12	240	1.0	0.70	0.25	15.0	18.50	65.00
UBF RV240008 Fig. 1, $\emptyset 0.51$, Sn/CuFe	0.08	0.19	240	1.0	0.80	0.40	15.0	7.40	26.00
UBF RV240012 Fig. 1, $\emptyset 0.51$, Sn/CuFe	0.12	0.30	240	1.2	1.00	0.60	15.0	3.00	12.00
UBF RV240016 Fig. 1, $\emptyset 0.51$, Sn/CuFe	0.16	0.37	240	2.0	1.40	0.80	15.0	2.50	7.80
UBF RV240025 Fig. 1, $\emptyset 0.51$, Sn/CuFe	0.25	0.56	240	3.5	1.50	1.25	18.5	1.30	3.80
UBF RV240033 Fig. 1, $\emptyset 0.51$, Sn/CuFe	0.33	0.74	240	4.5	1.70	1.65	18.5	0.83	2.60
UBF RV240040 Fig. 2, $\emptyset 0.81$, Sn/CuFe	0.40	0.90	240	5.5	2.00	2.00	24.0	0.60	1.90
UBF RV240055 Fig. 2, $\emptyset 0.81$, Sn/CuFe	0.55	1.25	240	7.0	3.40	2.75	26.0	0.45	1.45
UBF RV240075 Fig. 2, $\emptyset 0.81$, Sn/CuFe	0.75	1.50	240	7.5	2.60	3.75	18.0	0.32	0.84
UBF RV240100 Fig. 2, $\emptyset 0.81$, Sn/CuFe	1.00	2.00	240	10.0	2.90	5.00	21.0	0.22	0.58
UBF RV240125 Fig. 2, $\emptyset 0.81$, Sn/CuFe	1.25	2.50	240	12.5	3.30	6.25	23.0	0.17	0.44
UBF RV240200 Fig. 2, $\emptyset 0.81$, Sn/CuFe	2.00	4.00	240	20.0	4.45	10.00	28.0	0.09	0.22

I_{hold} : Hold current is the maximum current that **UBF Fuse** can pass through without interruption at 20°C unless otherwise specified.

I_{trip} : Trip current is the minimum current that will switch the device from low resistance state to high resistance state at 20°C unless specified.

V_{max} : The maximum voltage device can withstand without damage at rated current.

I_{max} : The maximum current device can withstand without damage at rated voltage.

P_d : The power dissipated from device when in the tripped state at 20°C unless otherwise specified.

R_{min} : The minimum resistance of device as received from the factory at 20°C unless otherwise specified.

R_{max} : The maximum resistance of device as received from the factory at 20°C unless otherwise specified.

R_{1max} : The maximum resistance of device when measured one hour post trip at 20°C unless otherwise specified.

Max. Time-to-trip: The maximum time for device to trip at specified current ratings at 20°C unless otherwise specified.

Environmental Characteristics

Test	Test Conditions	Resistance Change
Passive Aging	+85°C, 1000 hours	+5% typical resistance change
Humidity Aging	+85°C, 85% R.H., 7 days	±5% typical resistance change
Thermal Shock	+85°C to -40°C, 10 times MIL-STD-202, Method 107G	±5% typical resistance change
Vibration	MIL-STD-883C, Condition A	No change
Solvent resistance	MIL-STD-202, Method 215	No change

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Dimensions

Part No	Figure	A		B		C		D		E		F	
		Max.	Typical	Max.	Typical	Max.	Typical	Max.	Typical	Max.	Typical	Max.	Typical
UBF RV240005	1	8.3	10.7	5.1	7.6	3.8	1.6						
UBF RV240008	1	8.3	10.7	5.1	7.6	3.8	1.6						
UBF RV240012	1	8.3	10.7	5.1	7.6	3.8	1.6						
UBF RV240016	1	9.9	12.5	5.1	7.6	3.8	1.6						
UBF RV240025	2	9.6	17.4	5.1	7.6	3.8	1.8						
UBF RV240033	2	11.4	16.5	5.1	7.6	3.8	1.8						
UBF RV240040	2	11.5	19.5	5.1	7.6	3.8	1.8						
UBF RV240055	3	14.0	21.7	5.1	7.6	4.1	1.9						
UBF RV240075	3	11.5	23.4	5.1	7.6	4.8	1.9						
UBF RV240100	4	18.7	24.4	10.2	7.6	5.1	1.9						
UBF RV240125	4	21.2	27.4	10.2	7.6	5.3	1.9						
UBF RV240200	3	24.9	33.8	10.2	7.6	6.1	1.9						

NOTE: All drawings are not in scale and layout may vary.
 All parts dimension is in millimeter unless otherwise specified.
 Radial-leaded parts are not designed for reflow soldering.

Lead Materials: UBF RV240005 – 016, Tin plated Copper Steel, 0.51mm / 0.205mm²/24 AWG

UBF RV240055 – 075, Tin plated Copper, 0.65mm / 0.52mm²/ 22 AWG

UBF RV240100 – 125, Tin plated Copper, 0.81mm / 0.52mm²/ 20 AWG

UBF RV240200 - Tin plated Copper, 0.81mm / 0.52mm²/ 20 AWG

Insulation Materials: Cured, flame-retardant epoxy polymer that meets UL94V-0

Agency Approval: UL File Number E 119550

c-UL File Number E 119550

TUV File Number Pending

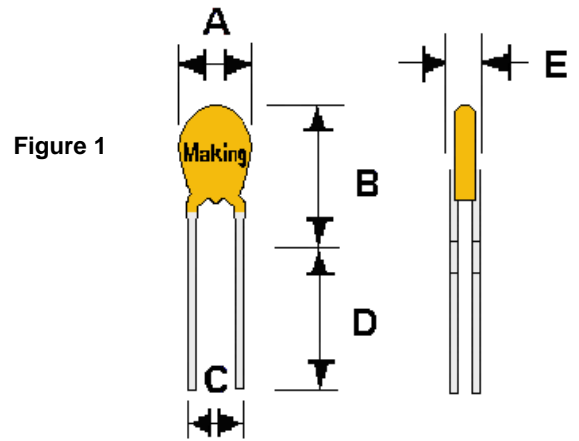


Figure 1

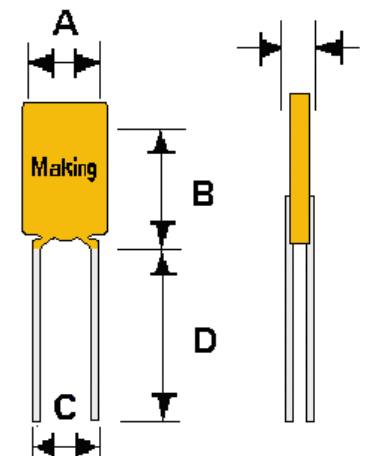


Figure 2

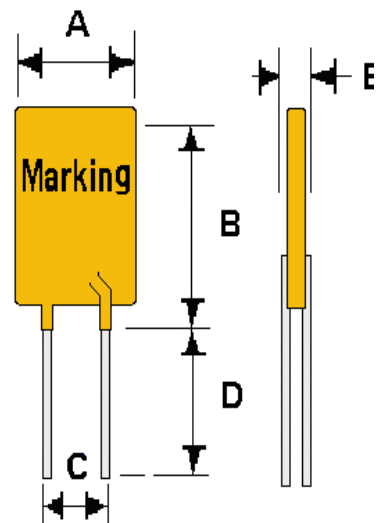
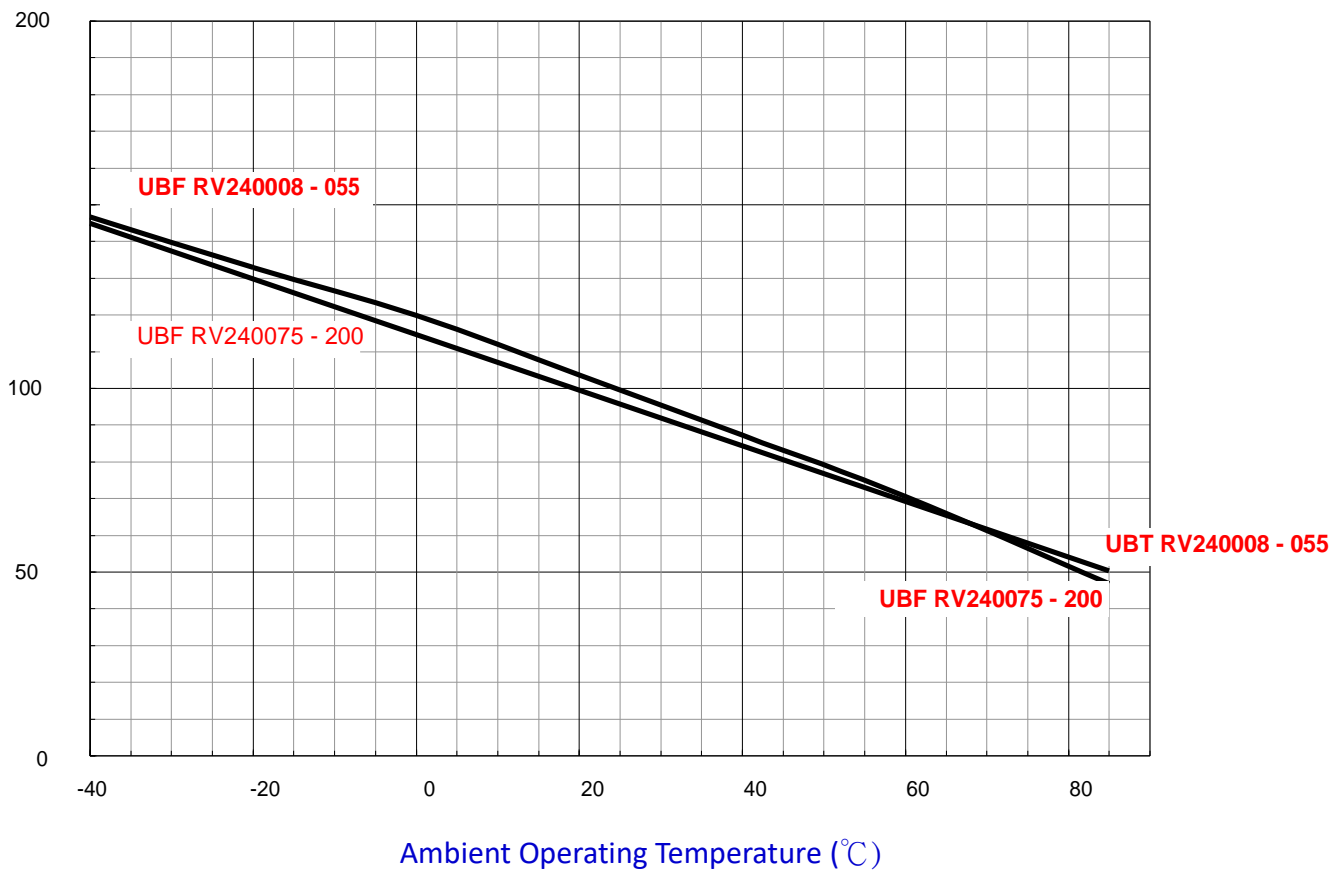


Figure 3

UBF RV240 Series (240V)

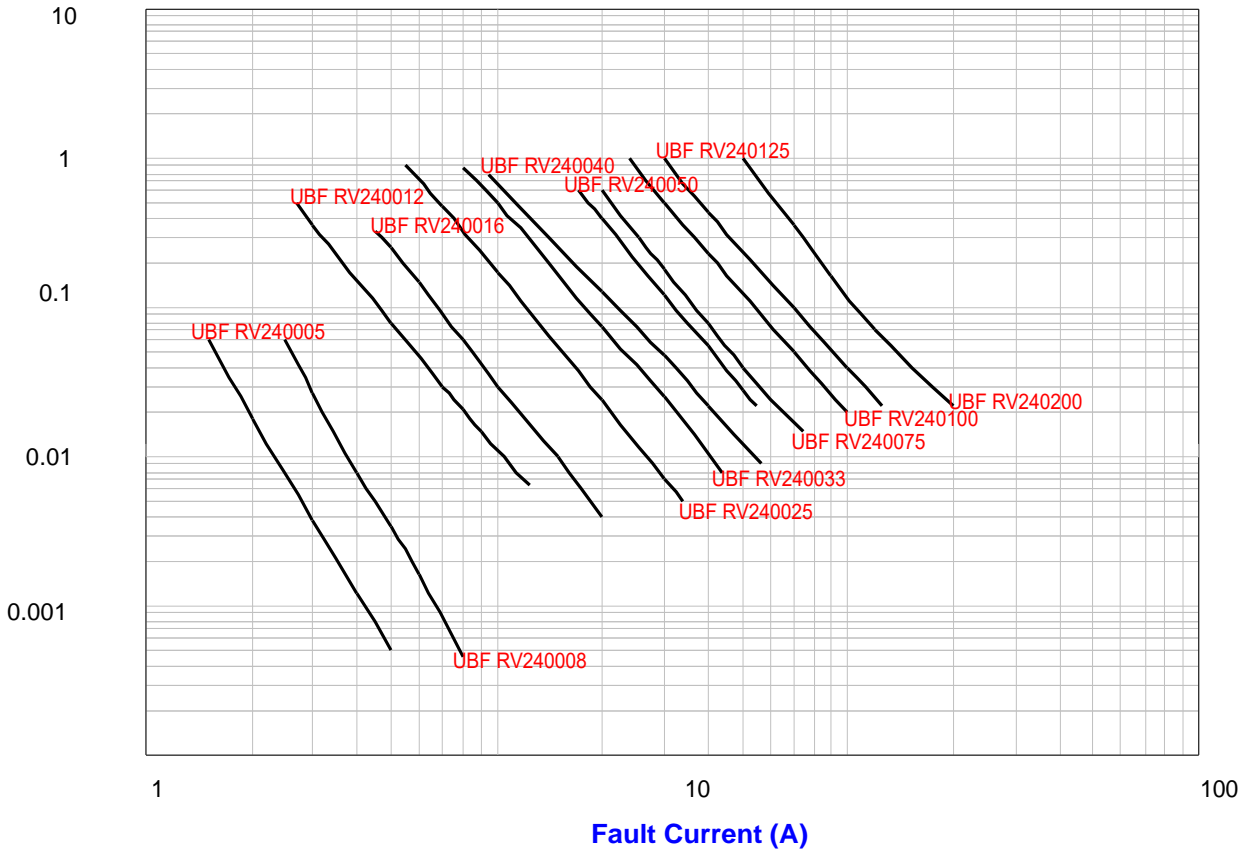
Typical Thermal Derating Chart – I_{hold} (A)

Part No	-40	-20	0	20	40	60	85
UBF RV240005	0.071	0.067	0.075	0.030	0.043	0.032	0.020
UBF RV240008	0.114	0.106	0.080	0.074	0.069	0.051	0.032
UBF RV240012	0.17	0.16	0.12	0.11	0.10	0.08	0.05
UBF RV240016	0.23	0.21	0.16	0.16	0.14	0.10	0.06
UBF RV240025	0.36	0.33	0.25	0.25	0.22	0.16	0.10
UBF RV240033	0.47	0.44	0.33	0.33	0.28	0.21	0.13
UBF RV240040	0.57	0.56	0.46	0.40	0.34	0.26	0.16
UBF RV240055	0.78	0.73	0.63	0.55	0.47	0.35	0.22
UBF RV240075	1.07	1.00	0.86	0.75	0.65	0.48	0.30
UBF RV240100	1.42	1.33	1.14	1.00	0.86	0.64	0.40
UBF RV240125	1.78	1.66	1.43	1.25	1.08	0.80	0.50
UBF RV240200	2.84	2.66	2.28	2.00	1.72	1.28	0.80

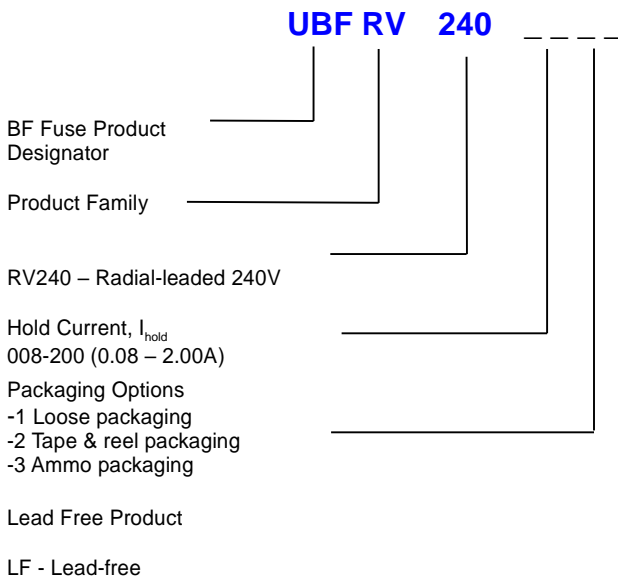


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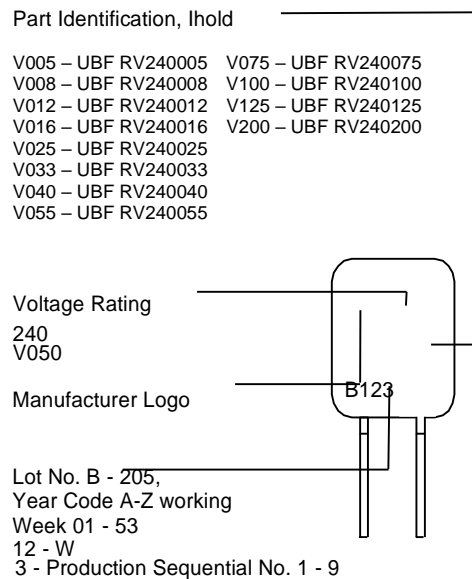
Typical Time To Trip Curve at 20°C



Ordering Information



Part Marking



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Packaging Information

Part No	-1 Loose Pack Quantity	-2 Tape & Reel Quantity	-3 Ammo Pack Quantity
UBF RV240005	500	3000	2000
UBF RV240008	500	3000	2000
UBF RV240012	500	3000	2000
UBF RV240016	500	3000	2000
UBF RV240025	500	2500	2000
UBF RV240033	500	2500	2000
UBF RV240040	500	2000	2000
UBF RV240055	500	2000	2000
UBF RV240075	500	1500	1500
UBF RV240100	500	1500	1500
UBF RV240125	500	1500	1500
UBF RV240200	500	1500	1500