

UBF RG16 Series (16V)

Electrical Characteristics

Part No Figure / Lead Option	I_{hold} (A)	I_{trip} (A)	V_{max} (V)	I_{max} (A)	$P_{d\ typ}$ (W)	Max. (A)	Time-to-trip (s)	R_{min} (Ω)	R_{1max} (Ω)
UBF RG16075 Fig. 1, $\emptyset 0.51$, Sn/CuFe	0.75	1.30	16	40	0.3	8.0	0.4	0.080	0.023
UBF RG16120 Fig. 1, $\emptyset 0.51$, Sn/CuFe	1.20	2.00	16	40	0.6	8.0	0.5	0.040	0.014
UBF RG16155 Fig. 1, $\emptyset 0.51$, Sn/CuFe	1.55	2.70	16	40	0.7	8.0	0.6	0.030	0.012
UBF RG16250 Fig. 1, $\emptyset 0.51$, Sn/CuFe	2.50	4.70	16	100	1.0	12.5	5.0	0.022	0.053
UBF RG16300 Fig. 2, $\emptyset 0.81$, Sn/Cu	3.00	5.10	16	100	2.3	15.0	2.0	0.034	0.105
UBF RG16400 Fig. 2, $\emptyset 0.81$, Sn/Cu	4.00	6.80	16	100	2.4	20.0	3.5	0.020	0.063
UBF RG16500 Fig. 2, $\emptyset 0.81$, Sn/Cu	5.00	8.50	16	100	2.6	25.0	3.6	0.014	0.044
UBF RG16600 Fig. 2, $\emptyset 0.81$, Sn/Cu	6.00	10.20	16	100	2.8	30.0	5.8	0.009	0.033
UBF RG16700 Fig. 2, $\emptyset 0.81$, Sn/Cu	7.00	11.90	16	100	3.0	35.0	8.0	0.006	0.021
UBF RG16800 Fig. 2, $\emptyset 0.81$, Sn/Cu	8.00	13.60	16	100	3.0	40.0	9.0	0.005	0.018
UBF RG16900 Fig. 2, $\emptyset 0.81$, Sn/Cu	9.00	15.30	16	100	3.3	45.0	12.0	0.004	0.015
UBFRG161000 Fig. 2, $\emptyset 0.81$, Sn/Cu	10.00	17.00	16	100	3.6	50.0	12.5	0.003	0.012
UBFRG161100 Fig. 2, $\emptyset 0.81$, Sn/Cu	11.00	18.70	16	100	3.7	55.0	13.5	0.003	0.010
UBFRG161200 Fig. 2, $\emptyset 1.00$, Sn/Cu	12.00	20.40	16	100	4.2	60.0	16.0	0.002	0.009
UBFRG161400 Fig. 2, $\emptyset 1.00$, Sn/Cu	14.00	23.80	16	100	4.6	70.0	20.0	0.002	0.008

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

	A	B	C	D	E	F
Part No	Max.	Max.	Typical	Min.	Max.	Typical
UBF RG16075	6.9	11.4	5.1	7.6	3.0	0.8
UBF RG16120	6.9	11.7	5.1	7.6	3.0	0.8
UBF RG16155	6.9	11.7	5.1	7.6	3.0	0.8
UBF RG16250	8.9	12.8	5.1	7.6	3.0	1.2
UBF RG16300	7.1	11.0	5.1	7.6	3.0	1.2
UBF RG16400	8.9	12.8	5.1	7.6	3.0	1.2
UBF RG16500	10.4	14.3	5.1	7.6	3.0	1.2
UBF RG16600	10.7	17.1	5.1	7.6	3.0	1.2
UBF RG16700	11.2	19.7	5.1	7.6	3.0	1.2
UBF RG16800	12.7	20.9	5.1	7.6	3.0	1.2
UBF RG16900	14.0	21.7	5.1	7.6	3.0	1.2
UBF RG161000	16.5	24.1	5.1	7.6	3.0	1.2
UBF RG161100	17.5	26.0	5.1	7.6	3.0	1.2
UBF RG161200	17.5	28.0	10.2	7.6	3.0	1.4
UBF RG161400	27.9	27.9	10.2	7.6	3.0	1.4

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 RG16090 – 250, Tin plated Copper Steel, 0.51mm / 0.205mm² / 24 AWG
 UBF RG16300 – 1100, Tin plated Copper, 0.81mm / 0.52mm² / 20 AWG
 UBF RG161200 – 1400, Tin plated Copper, 1.0mm / 0.82mm² / 18 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

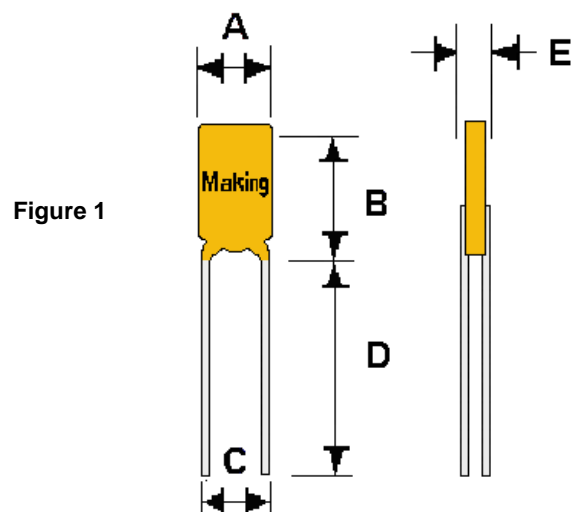


Figure 1

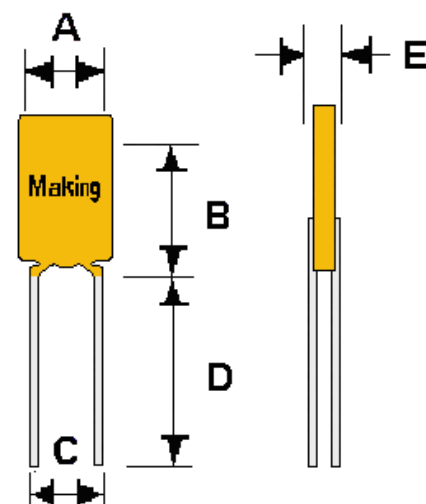


Figure 2

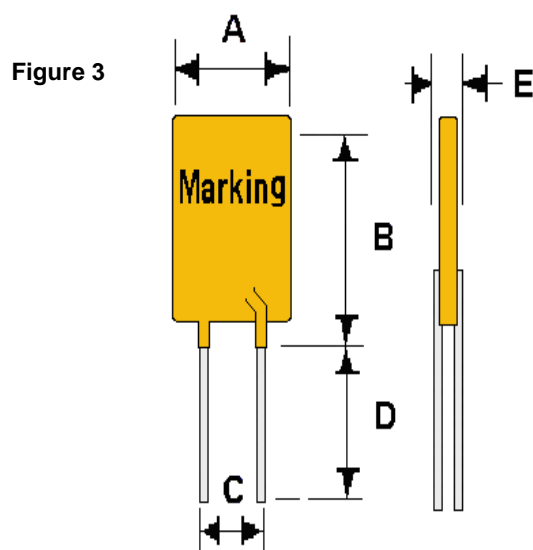
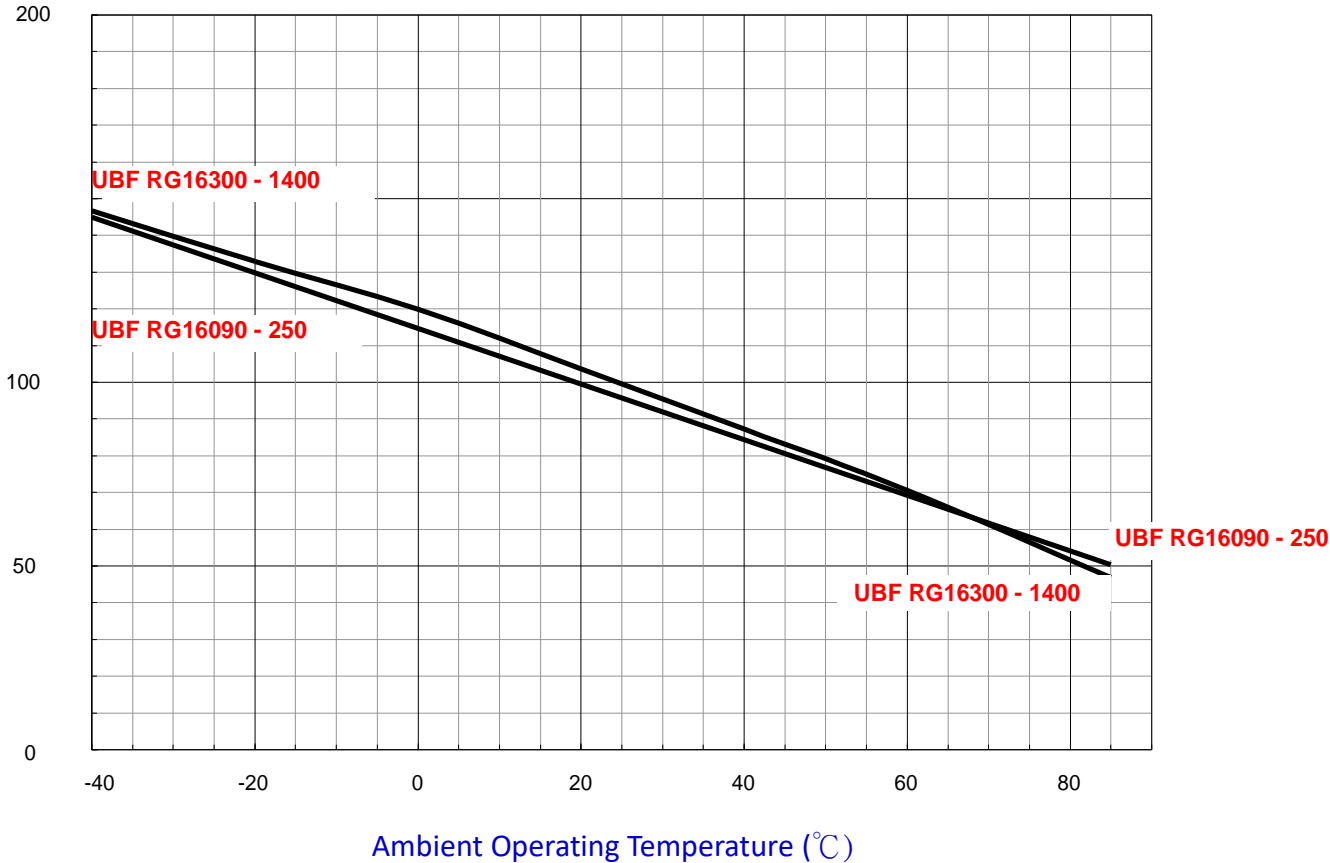


Figure 3

UBF RG16 Series (16V)

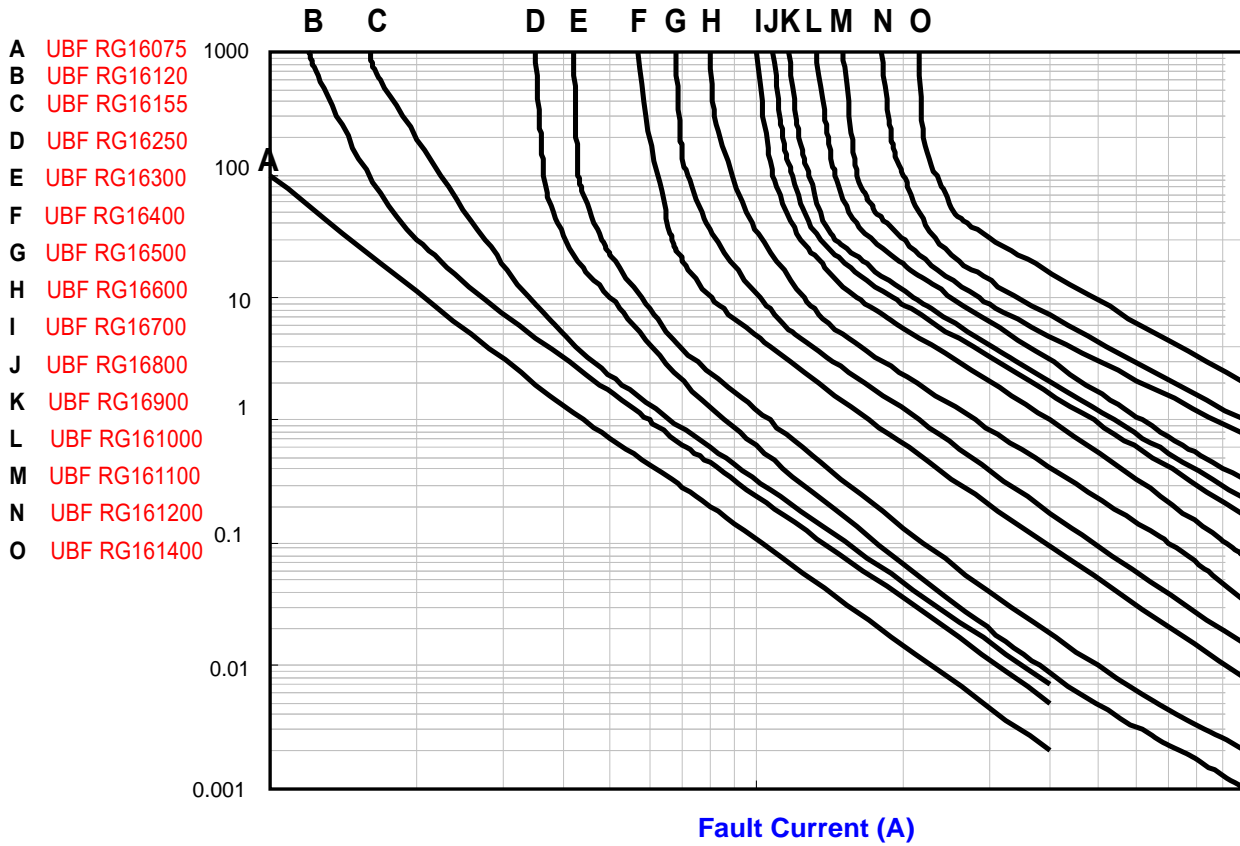
Typical Thermal Derating Chart – I_{hold} (A)

Part No	-40	-20	0	20	40	60	85
UBF RG16075	1.10	0.98	0.86	0.75	0.62	0.50	0.39
UBF RG16120	1.75	1.56	1.38	1.20	1.00	0.80	0.62
UBF RG16155	2.26	2.02	1.78	1.55	1.29	1.04	0.81
UBF RG16250	3.73	3.30	3.00	2.50	2.20	1.78	1.18
UBF RG16300	4.47	3.96	3.60	3.00	2.64	2.13	1.41
UBF RG16400	5.96	5.28	4.80	4.00	3.52	2.84	1.88
UBF RG16500	7.45	6.60	6.00	5.00	4.40	3.55	2.35
UBF RG16600	8.94	7.92	7.20	6.00	5.28	4.26	2.82
UBF RG16700	10.43	9.24	8.40	7.00	6.16	4.79	3.29
UBF RG16800	11.92	10.566	9.60	8.00	7.04	5.68	3.76
UBF RG16900	13.41	11.88	10.80	9.00	7.92	6.39	4.23
UBF RG161000	14.90	13.20	12.00	10.00	8.80	7.10	4.70
UBF RG161100	16.39	14.52	13.20	11.00	9.68	7.81	5.17
UBF RG161200	17.88	15.84	14.40	12.00	10.56	8.52	5.64
UBF RG161400	20.86	18.48	16.80	14.00	12.32	9.94	6.58

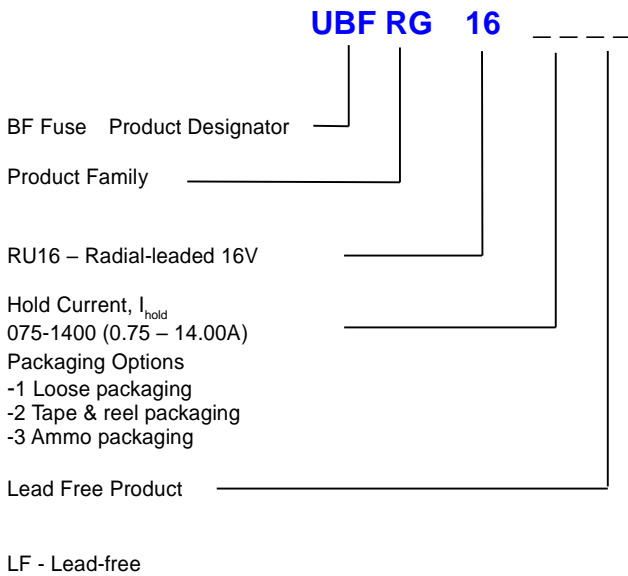


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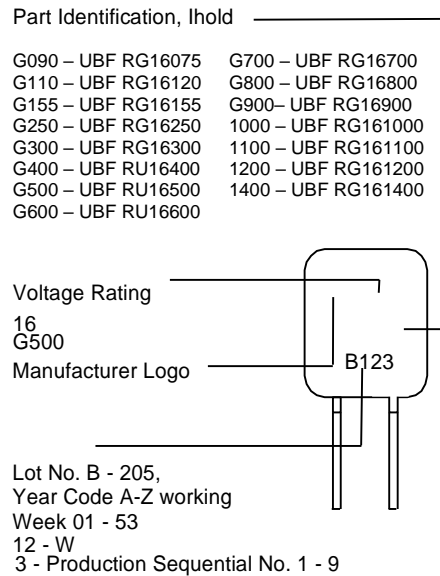
Typical Time To Trip Curve at 20°C



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 RG16075	500	3000	2000
UBF RG16120	500	3000	2000
UBF RG16155	500	3000	2000
UBF RG16250	500	3000	2000
UBF RG16300	500	2500	2000
UBF RG16400	500	2500	2000
UBF RG16500	500	2000	2000
UBF RG16600	500	2000	2000
UBF RG16700	500	1500	1500
UBF RG16800	500	1000	1000
UBF RG16900	500	1000	1000
UBF RG161000	250	1000	1000
UBF RG161100	250	1000	1000
UBF RG161200	250	1000	1000
UBF RG161400	250	1000	1000