UBF SR Series - 125°C Activation

Electrical Characteristics

Part No	Figure	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_{max} (Ω)	R_{1max} (Ω)
UBF SR120	1	1.20	2.7	15	100	1.2	6.0	5.0	0.085	0.160	0.220
UBF SR175	1	1.75	3.8	15	100	1.5	8.75	5.0	0.050	0.090	0.120
UBF SR200	1	2.00	4.4	30	100	1.9	10.0	4.0	0.030	0.060	0.100
UBF SR350	1	3.50	6.3	30	100	2.5	20.0	3.0	0.017	0.031	0.050
UBF SR420	1	4.20	7.6	30	100	2.9	20.0	6.0	0.012	0.024	0.040

I_{hold}: Hold current is the maximum current that **UB 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	+70°C, 1000 hours	±10% typical resistance change
Humidity Aging	+85°C, 85% R.H., 7 days	±10% 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

UBF SR Series - 125°C Activation

Dimensions

	A		B		C		D		E		F	
Part No	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
UBF SR120	19.9	22.1	0.6	1.0	4.9	5.2	5.5	7.5	5.5	7.5	3.9	4.1
UBF SR120S	19.9	22.1	0.6	1.0	4.9	5.2	5.5	7.5	5.5	7.5	3.9	4.1
UBF SR175	20.9	23.1	0.6	1.0	4.9	5.2	4.1	5.5	4.1	5.5	3.9	4.1
UBF SR175S	20.9	23.1	0.6	1.0	4.9	5.2	4.1	5.5	4.1	5.5	3.9	4.1
UBF SR175SS	20.9	23.1	0.6	1.0	4.9	5.2	4.1	5.5	4.1	5.5	3.9	4.1
UBF SR175N	26.0	28.0	0.6	1.0	3.55	3.80	7.1	8.5	7.1	8.5	2.4	2.6
UBF SR200	21.3	23.4	0.5	1.1	10.2	11.0	5.0	7.6	5.0	7.6	4.8	5.4
UBF SR200N	30.0	32.0	0.6	1.0	3.55	3.80	5.5	7.5	5.5	7.5	2.4	2.6
UBF SR350	28.4	31.8	0.5	1.1	13.0	13.5	6.3	8.9	6.3	8.9	6.0	6.6
UBF SR420	30.6	32.4	0.5	1.1	12.9	13.6	5.0	7.5	5.0	7.5	6.0	6.7

NOTE: All drawings are not in scale and layout may vary.
All parts dimension is in millimeter unless otherwise specified.
Terminal material is quarter hard Nickel with nominal thickness 0.125mm. Tape material is Polyester.
All terminal's slit dimension is 0.5x4.0mm.
Rounded corner terminals are available upon customer request.
All part numbers are available without wrapping upon customer request.

Packaging: 1000 pcs per bag (UBFSR120 to UBFSR175N, 200N)
500 pcs per bag (UBF SR200 to UBFSR420)

Agency Approval: UL File Number E 119550
TUV File Number Pending

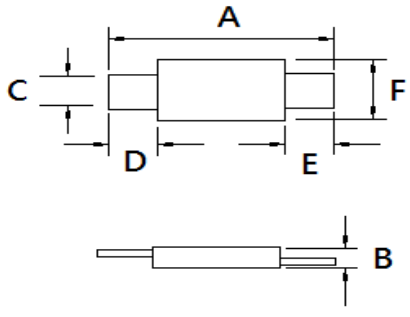


Figure 1

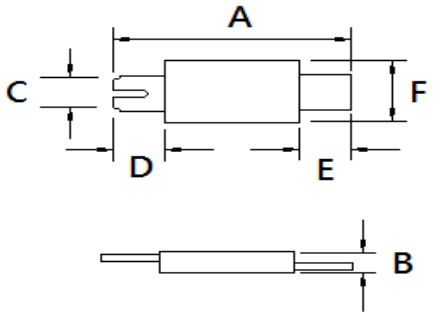
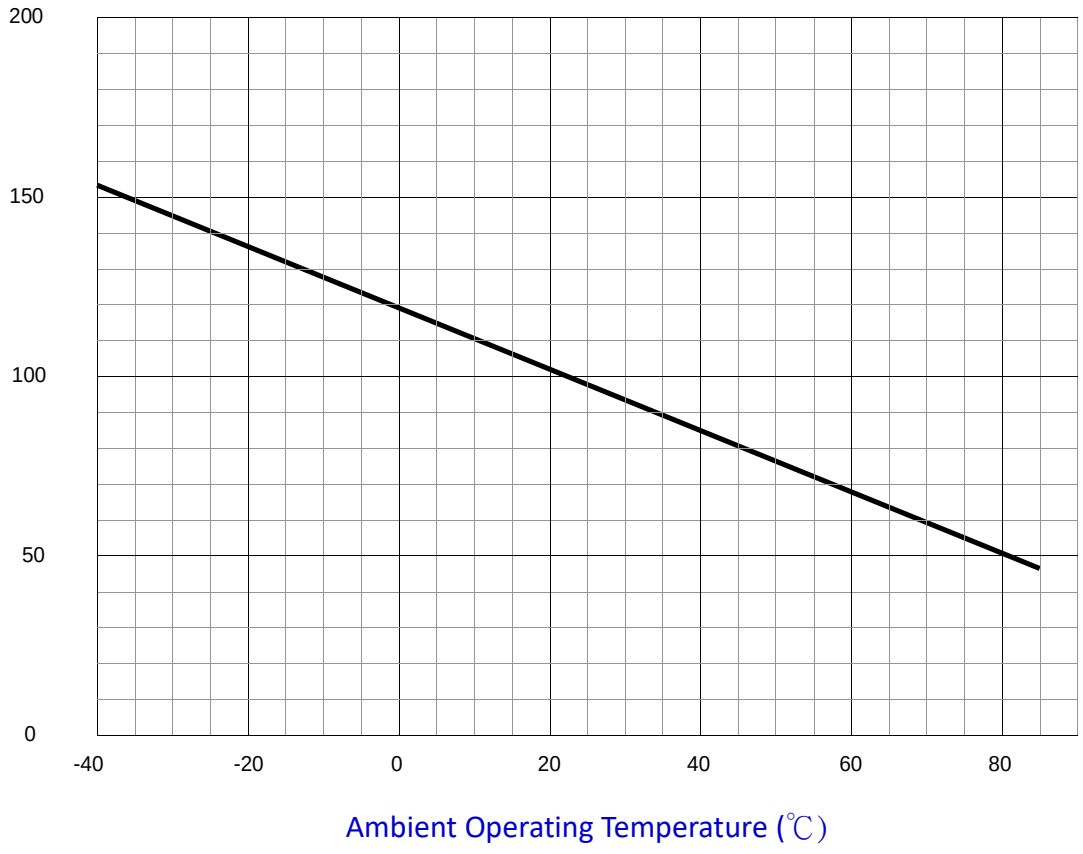


Figure 2

UBF SR Series - 125°C Activation

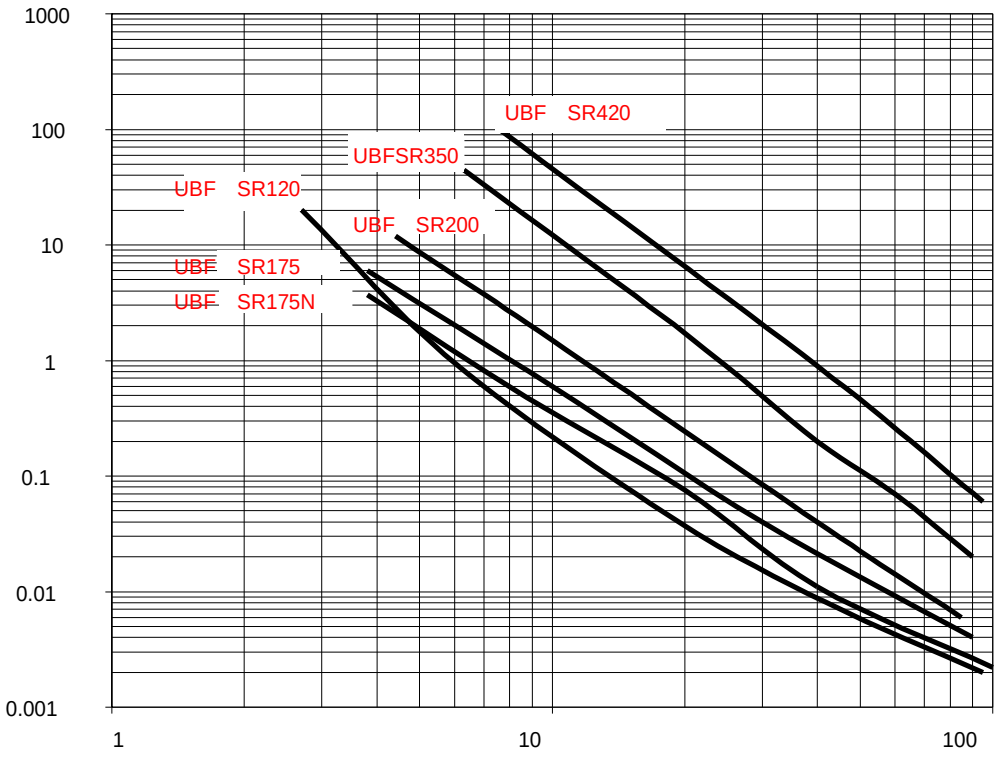
Typical Thermal Derating Chart – I_{hold} (A)

Part No	-40	-20	0	20	40	60	85
UBF SR120	1.9	1.7	1.5	1.2	1.0	0.8	0.4
UBF SR120S	1.9	1.7	1.5	1.2	1.0	0.8	0.4
UBF SR175	2.5	2.2	2.0	1.75	1.4	1.2	0.8
UBF SR175S	2.5	2.2	2.0	1.75	1.4	1.2	0.8
UBF SR175SS	2.5	2.2	2.0	1.75	1.4	1.2	0.8
UBF SR175N	2.5	2.2	2.0	1.75	1.4	1.2	0.8
UBF SR200	3.1	2.8	2.5	2.0	1.7	1.4	0.9
UBF SR200N	3.1	2.8	2.5	2.0	1.7	1.4	0.9
UBF SR350	5.3	4.8	4.3	3.5	3.0	2.5	1.7
UBF SR420	6.3	5.7	5.1	4.2	3.6	3.0	2.1



UBF SR Series - 125°C Activation

Typical Time To Trip Curve at 20 °C



Ordering Information

UBF SR 120 _ _ _

UB Fuse Product Designator

Product Family

SR - Standard, 125ºC activation

Hold Current, I_{hold}
120-420 (1.20 - 4.20A)

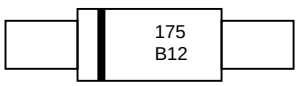
Lead Option & Type
G - Right angled terminal
L - Longer terminal
N - Narrow strap type
S - Single slit terminal
SS - Double slits terminal
U - Unwrapped strap type
X - Special terminal

Lead-Free Product
LF - Lead-free

Part Marking

Part Identification, Ihold
120 – UBF SR120, 120S
175 – UBF SR175, 175S, 175SS
175N –UBF SR175N
200 – UBF SR200
200N – UBF SR200N
350 – UBF SR350
420 – UBF SR420

Manufacturer Logo



Orientation Mark (Optional)

Lot No.
B - 2005, Year Code A - Z
12 - Working Week 01 - 53
3 - Production Sequential No. 1 - 9