Features

- ☐ Radial leaded devices
- ☐ High voltage surge capabilities
- ☐ Cured, flame retardant epoxy polymer insulating material meets UL94 V-0 requirements
- ☐ Available in lead-free version
- ☐ Agency Recognition: UL、CSA、TUV

WAY-ON

LB *series* — *R-line devices*

Product Dimensions

Part number	A	B	C	D	E	Lead	
	Max	Max	Max	Min	Max	Style	Size(ϕ)
LB080F	5.8	9.9	5.1	4.7	4.6	1	0.6
LB080UF	4.8	9.3	5.1	4.7	3.8	1	0.6
LB110F	6.5	11.0	5.1	4.7	4.6	1/2	0.6
LB110UF	6.0	10.0	5.1	4.7	3.8	1/2	0.6
LB120F	6.5	11.0	5.1	4.7	4.6	2	0.6
LB120UF	6.0	10.0	5.1	4.7	3.8	2	0.6
LB145F	6.5	11.0	5.1	4.7	4.6	2	0.6
LB145UF	6.0	10.0	5.1	4.7	3.8	2	0.6
LB180F	11.0	13.6	5.1	4.7	4.6	1/2	0.6
LB180UF	10.4	12.6	5.1	4.7	3.8	1/2	0.6

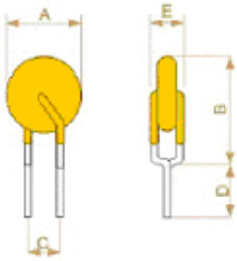


Figure1

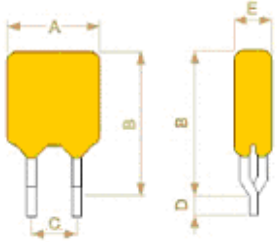
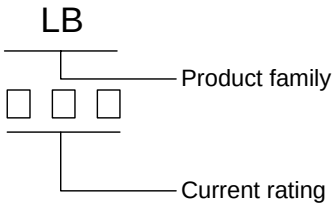


Figure2

Marking system



*The suffix “U” means no outside envelop

* Lead materials: Tin-plate metal wire.

* Lead-free devices are available, the right logo is lead-free mark of wayon.

Electrical Characteristics

Part number	I_H	I_T	T_{trip}		V_{max} interrupt	I_{max}	Pd_{typ}	R_{min}	R_{max}
	(A)	(A)	Current(A)	Time(S)	(V)	(A)	(W)	(Ω)	(Ω)
LB080F	0.080	0.160	0.35	3.00*	250	3	1.0	15.00	22.00
LB080UF	0.080	0.160	0.35	3.00*	250	3	1.0	14.00	20.00
LB110F	0.110	0.220	1.00	0.80	250	3	1.0	7.00	15.00
LB110UF	0.110	0.220	1.00	0.75	250	3	1.0	8.00	14.00
LB120F	0.120	0.240	1.00	1.00	250	3	1.0	4.00	12.00
LB120UF	0.120	0.240	1.00	0.95	250	3	1.0	6.00	12.00
LB145F	0.145	0.290	1.00	2.50	250	3	1.0	3.00	7.50
LB145UF	0.145	0.290	1.00	2.00	250	3	1.0	3.50	6.50
LB180F	0.180	0.360	1.00	21.00	250	10	1.0	0.80	2.50
LB180UF	0.180	0.360	1.00	15.00	250	10	1.0	0.80	2.00

I_H=Hold current: maximum current at which the device will not trip at 25℃ still air.

I_T=Trip current: minimum current at which the device will always trip at 25℃ still air.

$V_{max\ interrupt}$=Maximum interrupt voltage device can withstand without damage at rated current.

I_{max}=Maximum fault current device can withstand without damage at rated voltage.

T_{trip}=Maximum time to trip at assigned current.

Pd_{typ}=Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R_{min}=Minimum device resistance at 25℃ prior to tripping.

R_{max}=Maximum device resistance at 25℃ prior to tripping.

Thermal Derating Chart-$I_{H(A)}$

Part number	Maximum ambient operating temperatures(℃)								
	-40	-20	0	25	40	50	60	70	85
LB080F/LB080UF	0.124	0.110	0.095	0.080	0.066	0.059	0.051	0.044	0.033
LB110/FLB110UF	0.171	0.151	0.131	0.110	0.091	0.081	0.071	0.061	0.046
LB120F/LB120UF	0.191	0.170	0.148	0.120	0.104	0.093	0.082	0.071	0.055
LB145F/LB145UF	0.225	0.199	0.172	0.145	0.119	0.106	0.093	0.080	0.060
LB180F/LB180UF	0.269	0.240	0.211	0.180	0.153	0.138	0.123	0.109	0.087

Test Procedures And Requirements

Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @ 25℃	$R_{min} \leqslant R \leqslant R_{max}$
Time to Trip	Specified current, V_{max}, 25℃	T≤maximum Time to Trip
Hold Current	30min, at I_H	No trip
Trip Cycle Life	V_{max}, I_{max}, 100cycles	No arcing or burning
Trip Endurance	V_{max}, 24hours	No arcing or burning

Typical Time–to-Trip Charts at 25℃

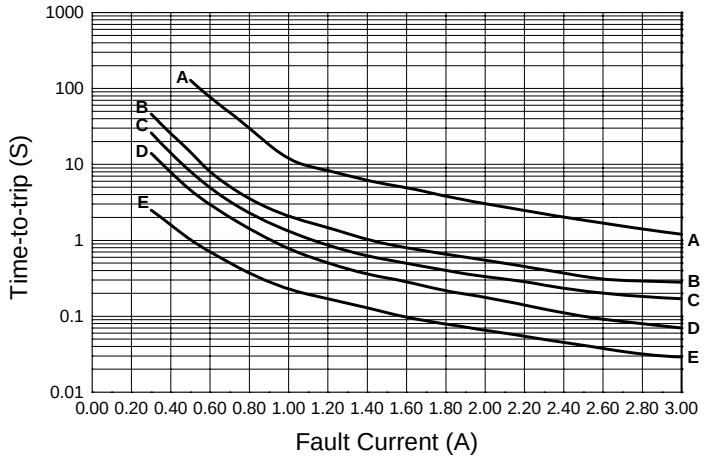
A=LB180F/180UF

B=LB/145F/145UF

C=LB120F/120UF

D=LB110F/110UF

E=LB080F/080UF



Package Information

Bulk:

LB080F/LB080UF~LB180F/LB180UF……1000pcs per bag

Tape & Reel:

LB080F/LB080UF~LB180F/LB180UF……3000pcs per reel