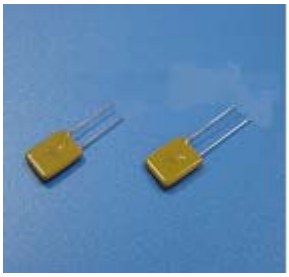


Features

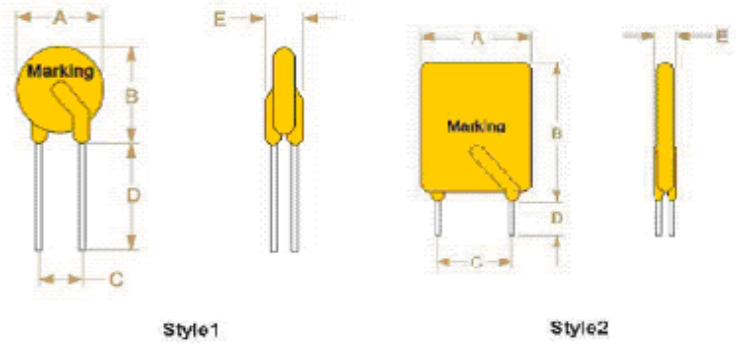
- ☐ Radial leaded devices
- ☐ Designed for use in line voltage applications, permitting maximum voltages of up to 265 VAC
- ☐ Protecting against both overcurrent and overtemperature faults on the primary side of power supplies and transformers
- ☐ Available in lead-free version
- ☐ Recognition: UL, CSA, TUV is pending

WAY-ON

LBLV *series* — *R-line devices*

Product Dimensions

Part number	A	B	C	D	E	Lead	
	Max	Max	Typ	Min	Max	Style	Size(Φ)
LB050LVF	8.3	10.7	5.1	7.6	3.8	1	0.6
LB080LVF	8.3	10.7	5.1	7.6	3.8	1	0.6
LB120LVF	8.3	10.7	5.1	7.6	3.8	1	0.6
LB160LVF	9.9	12.5	5.1	7.6	3.8	1	0.6
LB250LVF	9.6	17.4	5.1	7.6	3.8	2	0.6
LB330LVF	11.5	16.5	5.1	7.6	3.8	2	0.6
LB400LVF	11.5	19.5	5.1	7.6	3.8	2	0.6
LB600LVF	11.5	19.5	5.1	7.6	3.8	2	0.6
LB800LVF	13.0	22.5	5.1	7.6	3.8	2	0.6



Marking system

LB □□□ LV

Product family

Current rating

* 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}	I_{max}	R_{min}	R_{max}
	(A)	(A)	(A)	(S)	(V)	(A)	(Ω)	(Ω)
LB050LVF	0.05	0.12	0.25	15.0	265	1.0	18.50	31.00
LB080LVF	0.08	0.19	0.40	15.0	265	1.2	7.40	12.00
LB120LVF	0.12	0.30	0.60	15.0	265	1.2	3.00	6.50
LB160LVF	0.16	0.37	0.80	15.0	265	2.0	2.50	4.10
LB250LVF	0.25	0.56	1.25	18.5	265	3.5	1.30	2.10
LB330LVF	0.33	0.80	1.65	21.0	265	4.5	0.77	1.24
LB400LVF	0.40	0.90	2.00	26.0	265	5.5	0.60	0.97
LB600LVF	0.60	1.35	3.00	36.0	265	5.5	0.40	0. 70
LB800LVF	0.80	1.80	4.00	40.0	265	10.0	0.30	0. 70

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}=Maximum 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(s) at assigned current.

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
LB050LVF	0.080	0.075	0.062	0.050	0.040	0.035	0.030	0.025	0.017
LB080LVF	0.128	0.120	0.100	0.080	0.064	0.056	0.048	0.040	0.028
LB120LVF	0.192	0.180	0.150	0.120	0.096	0.084	0.072	0.060	0.042
LB160LVF	0.256	0.240	0.200	0.160	0.128	0.112	0.096	0.080	0.056
LB250LVF	0.400	0.375	0.315	0.250	0.200	0.175	0.150	0.125	0.087
LB330LVF	0.63	0.50	0.42	0.33	0.27	0.23	0.20	0.17	0.11
LB400LVF	0.64	0.60	0.50	0.40	0.32	0.28	0.24	0.20	0.21
LB600LVF	0.96	0.90	0.75	0.60	0.48	0.42	0.36	0.30	0.21
LB800LVF	1.28	1.20	1.00	0.80	0.64	0.56	0.48	0.40	0.28

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=LB050LVF

B=LB080LVF

C=LB120LVF

D=LB160LVF

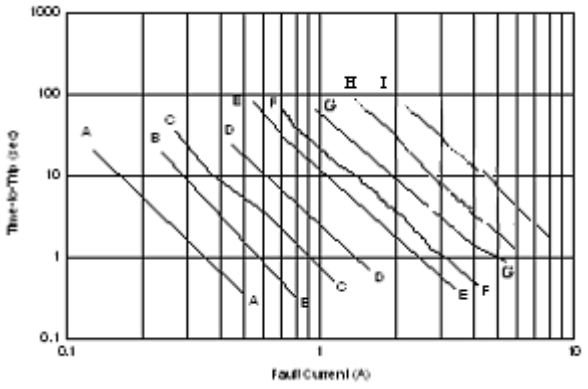
E=LB250LVF

F=LB330LVF

G=LB400LVF

H=LB600LVF

I=LB800LVF



Package Information

Bulk:
LB050LVF~LB400LVF……1000pcs per bag
Tape & Reel:
LB050LVF~LB400LVF……3000pcs per reel