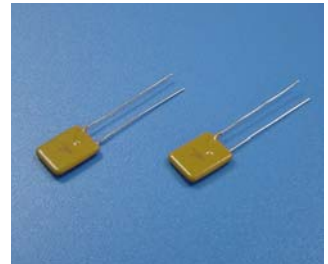


LBLV series *R-line Device*

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
- Lead-free and compliant with the European Union RoHS Directive 2002/95/EC
- Recognition: UL、CSA、TUV is pending

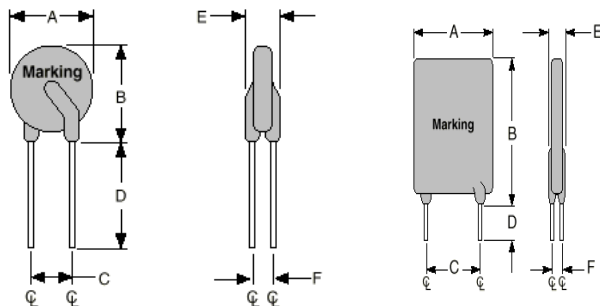


Applications

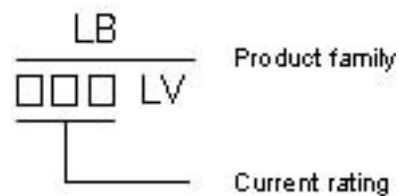
- Customer Premise Equipment
- MDF modules
- Network Interface Devices
- Base station
- Power supply

Product Dimensions

Part number	A	B	C	D	E	Lead	
	Max	Max	Max	Min	Typ	Style	Size(ϕ)
LB050LV	8.3	10.7	5.1	7.6	3.8	1	0.6
LB080LV	8.3	10.7	5.1	7.6	3.8	1	0.6
LB120LV	8.3	10.7	5.1	7.6	3.8	1	0.6
LB160LV	9.9	12.5	5.1	7.6	3.8	1	0.6
LB250LV	9.6	17.4	5.1	7.6	3.8	2	0.6
LB400LV	11.5	19.5	5.1	7.6	3.8	2	0.6
LB600LV	11.5	19.5	5.1	7.6	3.8	2	0.6
LB800LV	13.0	22.5	5.1	7.6	3.8	2	0.6



Marking system



*The suffix "U" means no outside envelop

* Lead materials: Tin-plate metal wire.

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)
LB050LV	0.05	0.12	0.25	15.0	265	1.0	18.5	31.00	22.00
LB080LV	0.08	0.19	0.40	15.0	265	1.2	7.4	12.00	20.00
LB120LV	0.12	0.30	0.60	15.0	265	1.2	3.0	6.50	15.00
LB160LV	0.16	0.37	0.80	15.0	265	2.0	2.5	4.10	14.00
LB250LV	0.25	0.56	1.25	18.5	265	3.5	1.3	2.10	12.00
LB400LV	0.40	0.90	2.00	26.0	265	5.5	0.6	0.97	12.00
LB600LV	0.60	1.35	3.00	36.0	265	5.5	0.4	0.70	7.50
LB800LV	0.80	1.80	4.00	40.0	265	10.0	0.3	0.70	6.50

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

I_T =Trip current: minimum current at which the device will always trip at 25°C 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°C prior to tripping.

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

Thermal Derating Chart-Ih(A)

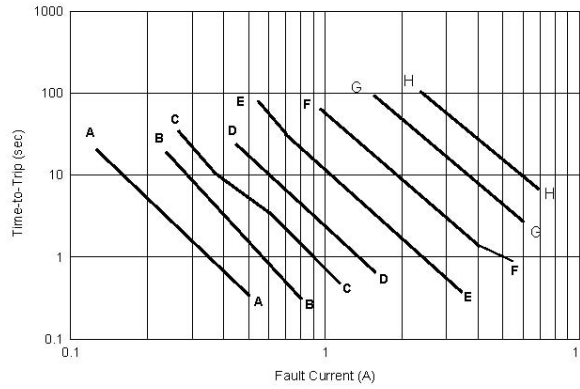
Part number	Maximum ambient operating temperatures(°C)								
	-40	-20	0	25	40	50	60	70	85
LB050LV	0.080	0.075	0.063	0.050	0.040	0.035	0.030	0.025	0.018
LB080LV	0.128	0.120	0.100	0.080	0.064	0.056	0.048	0.040	0.028
LB120LV	0.192	0.180	0.150	0.120	0.096	0.084	0.072	0.060	0.042
LB160LV	0.256	0.240	0.200	0.160	0.128	0.112	0.096	0.080	0.056
LB250LV	0.400	0.375	0.313	0.250	0.200	0.175	0.150	0.125	0.088
LB400LV	0.640	0.600	0.500	0.400	0.320	0.280	0.240	0.200	0.140
LB600LV	0.960	0.900	0.750	0.600	0.480	0.420	0.360	0.300	0.210
LB800LV	1.280	1.200	1.000	0.800	0.640	0.560	0.480	0.400	0.280

Test Procedures And Requirements

Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @ 25°C	$R_{min} \leq R \leq R_{max}$
Time to Trip	Specified current, V_{max} , 25°C	$T \leq$ 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°C

- A=LB180/180U
- B=LB/145/145U
- C=LB120/120U
- D=LB110/110U
- E=LB080/080U



Packaging and Storage

Bulk:

- LB050LV~LB160LV.....1000pcs per bag
- LB250LV~LB800LV 500pcs per bag

Notices:

The devices are intended for protection against occasional overcurrent or overtemperature fault conditions and should not be used when repeated fault conditions are anticipated.

Operation beyond maximum ratings or improper use may result in device damage and possible electrical arcing and flame.