



## 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

SEL-USE



LB series

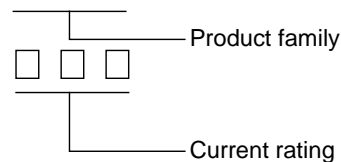
R-line devices

## Product Dimensions (mm)

Part number	A	B	C	D	E	Lead	
	Max	Max	Max	Min	Typ	Style	Size( )
LB080	5.8	9.9	4.6	4.7	5.1	1	0.6
LB080U	4.8	9.3	3.8	4.7	5.1	1	0.6
LB110	6.5	11.0	4.6	4.7	5.1	2	0.6
LB110U	6.0	10.0	3.8	4.7	5.1	2	0.6
LB120	6.5	11.0	4.6	4.7	5.1	2	0.6
LB120U	6.0	10.0	3.8	4.7	5.1	2	0.6
LB145	6.5	11.0	4.6	4.7	5.1	2	0.6
LB145U	6.0	10.0	3.8	4.7	5.1	2	0.6
LB180	11.0	13.6	4.6	4.7	5.1	2	0.6
LB180U	10.4	12.6	3.8	4.7	5.1	2	0.6

## Marking system

LB

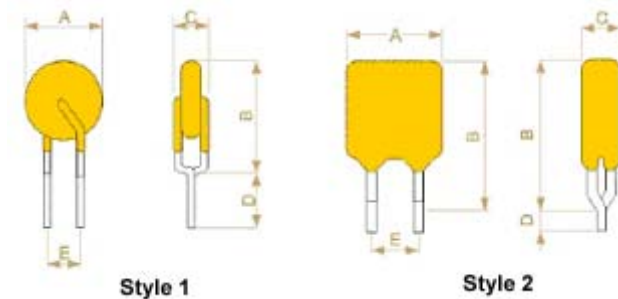


\*The suffix "U" means no outside envelop

\* Lead materials: Tin-plate metal wire.

\* Lead-free devices are available,

the right logo is lead-free mark of wayon.



Style 1

Style 2

## Electrical Characteristics

Part number	I <sub>H</sub>	I <sub>T</sub>	T <sub>trip</sub>		V <sub>max interrupt</sub>	I <sub>max</sub>	Pd <sub>typ</sub>	R <sub>min</sub>	R <sub>max</sub>
	(A)	(A)	Current(A)	Time(S)	(V)	(A)	(W)	( )	( )
LB080	0.080	0.160	0.35	3.00*	250	3	1.0	15.00	22.00
LB080U	0.080	0.160	0.35	3.00*	250	3	1.0	14.00	20.00
LB110	0.110	0.220	1.00	0.80	250	3	1.0	7.00	15.00
LB110U	0.110	0.220	1.00	0.75	250	3	1.0	8.00	14.00
LB120	0.120	0.240	1.00	1.00	250	3	1.0	4.00	12.00
LB120U	0.120	0.240	1.00	0.95	250	3	1.0	6.00	12.00
LB145	0.145	0.290	1.00	2.50	250	3	1.0	3.00	7.50
LB145U	0.145	0.290	1.00	2.00	250	3	1.0	3.50	6.50
LB180	0.180	0.360	1.00	21.00	250	10	1.0	0.80	2.20
LB180U	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 °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.

$P_{dtyp}$ =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- $I_H(A)$

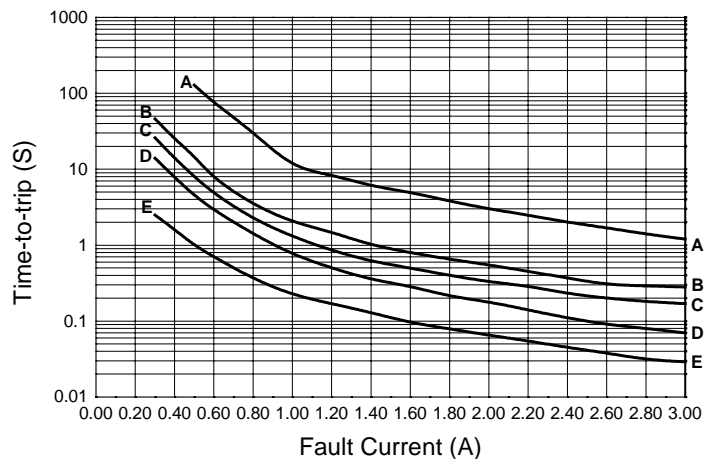
Part number	Maximum ambient operating temperatures( °C)								
	-40	-20	0	25	40	50	60	70	85
LB080/LB080U	0.124	0.110	0.095	0.080	0.066	0.059	0.051	0.044	0.033
LB110/LB110U	0.171	0.151	0.131	0.110	0.091	0.081	0.071	0.061	0.046
LB120/LB120U	0.191	0.170	0.148	0.120	0.104	0.093	0.082	0.071	0.055
LB145/LB145U	0.225	0.199	0.172	0.145	0.119	0.106	0.093	0.080	0.060
LB180/LB180U	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 °C	$R_{min}$ R $R_{max}$
Time to Trip	Specified current, $V_{max}$ , 25 °C	T maximum Time to Trip
Hold Current	60min, at $I_H$	No trip
Trip Cycle Life	$V_{max}$ , $I_{max}$ , 20cycles	No arcing or burning
Trip Endurance	$V_{max}$ , 15min	No arcing or burning

## Typical Time-to-Trip Charts at 25 °C

- A=LB180/180U
- B=LB145/145U
- C=LB120/120U
- D=LB110/110U
- E=LB080/080U



## Package Information

Bulk:

LB080/LB080U~LB180/LB180U.....1000pcs per bag

Tape & Reel:

LB080/LB080U~LB180/LB180U.....3000pcs per reel