Features

- ☐ Radial leaded devices, higher rated voltage up to 130V
- ☐ Cured, flame retardant epoxy polymer insulating material meets UL94 V-0 requirements
- ☐ Lead-free and compliant with the European Union RoHS Directive 2002/95/EC
- ☐ Recognition: UL, CSA, TUV is pending

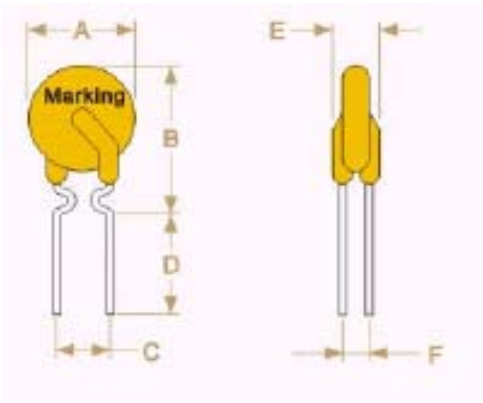
WAY-ON

LBN *series*

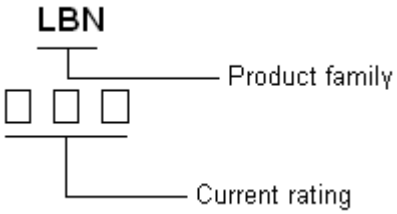
R-line Device

Product Dimensions

Part number	A	B	C	D	E	F	Lead	
	Max.	Max.	Typ.	Min.	Max.	Typ.	Style	Size(ϕ)
LBN 100F	5.5	10.2	5.1	7.6	3.1	1.1	1	0.6
LBN 150F	6.0	11.4	5.1	7.6	3.1	1.1	1	0.6
LBN 200F	6.5	11.6	5.1	7.6	3.1	1.1	1	0.6
LBN 250F	7.8	12.5	5.1	7.6	3.1	1.1	1	0.6
LBN 300F	8.5	12.5	5.1	7.6	3.1	1.1	1	0.6
LBN 350F	8.7	13.0	5.1	7.6	3.1	1.1	1	0.6
LBN 400F	9.5	14.5	5.1	7.6	3.1	1.1	1	0.6
LBN 500F	10.3	16.5	5.1	7.6	3.1	1.1	1	0.6
LBN 650F	12.0	17.5	5.1	7.6	3.1	1.1	1	0.6
LBN 800F	14.0	17.6	5.1	7.6	3.1	1.4	1	0.6
LBN 1100F	13.9	19.7	5.1	7.6	3.1	1.4	1	0.6
LBN 1350F	16.1	21.9	5.1	7.6	3.1	1.4	1	0.6



Marking system



* 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)	(S)	(V)	(A)	(Ω)	(Ω)
LBN 100F	0.10	0.2	3.6	130	40	5.6	10.0
LBN 150F	0.15	0.30	3.2	130	40	2.30	6.50
LBN 200F	0.20	0.40	3.0	130	40	1.70	3.40
LBN 250F	0.25	0.50	8.0	130	40	1.25	1.65
LBN 300F	0.30	0.60	5.8	130	40	0.90	1.55
LBN 350F	0.35	0.70	7.0	130	40	0.85	1.20
LBN 400F	0.40	0.80	5.0	130	40	0.72	1.25
LBN 500F	0.50	1.00	5.3	130	40	0.55	0.85
LBN 650F	0.65	1.30	6.5	130	40	0.40	0.65
LBN 800F	0.80	1.60	7.0	130	40	0.30	0.59
LBN 1100F	1.10	2.20	7.3	130	40	0.15	0.50
LBN 1350F	1.35	2.70	7.5	130	40	0.11	0.38

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-Ih (A)

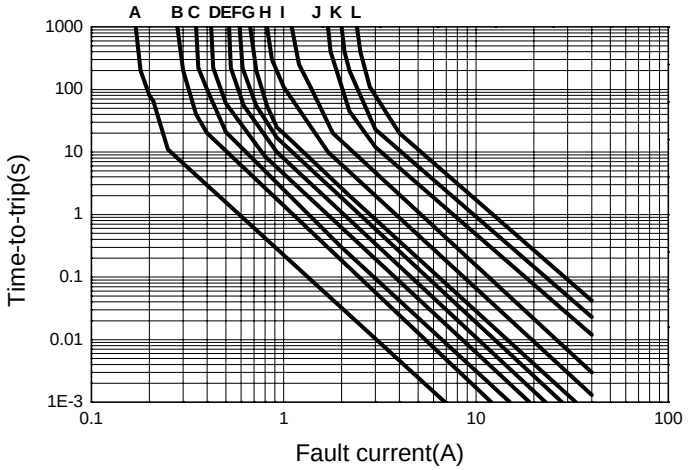
Part number	Maximum ambient operating temperatures(℃)								
	-40	-20	0	25	40	50	60	70	85
LBN 100	0.23	0.19	0.15	0.10	0.08	0.06	0.05	0.04	0.02
LBN 150	0.28	0.24	0.20	0.15	0.13	0.11	0.09	0.07	0.05
LBN 200	0.33	0.29	0.25	0.20	0.18	0.16	0.14	0.12	0.10
LBN 250	0.38	0.34	0.30	0.25	0.22	0.20	0.18	0.16	0.14
LBN 300	0.43	0.39	0.35	0.30	0.27	0.25	0.23	0.21	0.18
LBN 350	0.48	0.44	0.40	0.35	0.32	0.30	0.28	0.26	0.23
LBN 400	0.53	0.49	0.45	0.40	0.37	0.35	0.33	0.31	0.28
LBN 500	0.63	0.59	0.55	0.50	0.47	0.45	0.43	0.41	0.38
LBN 650	0.78	0.74	0.70	0.65	0.62	0.60	0.58	0.56	0.53
LBN 800	0.93	0.89	0.85	0.80	0.77	0.75	0.73	0.71	0.68
LBN 1100	1.23	1.19	1.15	1.10	1.07	1.05	1.03	1.01	0.98
LBN 1350	1.48	1.44	1.40	1.35	1.32	1.30	1.28	1.26	1.23

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= LBN100
B= LBN150
C= LBN200
D= LBN250
E= LBN300
F= LBN350
G= LBN400
H= LBN500
I = LBN650
J = LBN800
K= LBN1100
L= LBN1350



Package Information

Bulk:

LBN100F~LBN1350F…… ……1000pcs per bag

Tape & Reel:

LBN100F~LBN1350F……..3000pcs per reel

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.