Polymer PTC Devices

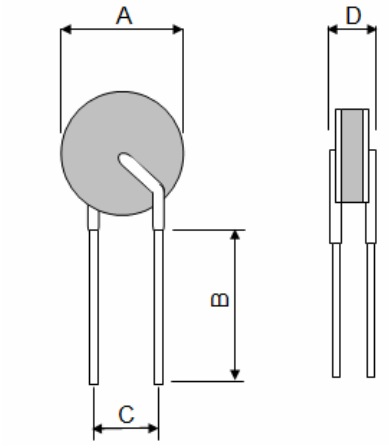
Features

- ☐ Radial leaded devices
- ☐ Typical application in electronic ballast
- ☐ Agency Recognition: UL、CSA
- ☐ Lead-free and compliant with the European Union RoHS Directive 2011/65/EU

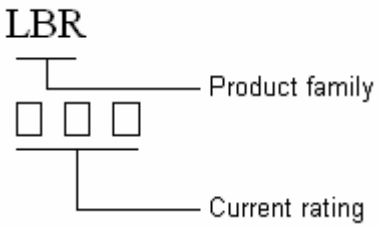
LBR *series*

Product Dimensions

Part number	A	B	C		D	Lead
	Max	Min	Min.	Max.	Max	Size(Φ)
LBR200F	5.5	7.6	4.4	5.8	3.1	0.6
LBR250F	7.5	7.6	4.4	5.8	3.1	0.6
LBR350F	7.5	7.6	4.4	5.8	3.1	0.6
LBR550F	11.0	7.6	4.4	5.8	3.1	0.8
LBR750F	11.0	7.6	4.4	5.8	3.1	0.8
LBR900F	13.0	7.6	4.4	5.8	3.1	0.8



Marking system



* Lead materials: Tin-plate metal wire.

Electrical Characteristics

Part number	I_H	I_T	T_{trip}		V_{max}	I_{max}	Pd_{typ}	R_{min}	R_{max}	R_{1max}
	(A)	(A)	Current (A)	Time (S)	(V)	(A)	(W)	(Ω)	(Ω)	(Ω)
LBR200F	0.20	0.40	0.60	60	90	20	1.70	1.00	2.50	4.20
LBR250F	0.25	0.50	0.70	60	90	20	1.75	0.80	2.00	3.36
LBR350F	0.35	0.75	1.00	60	90	20	1.80	0.60	1.20	2.16
LBR550F	0.55	1.10	1.60	60	90	20	2.00	0.35	0.90	1.50
LBR750F	0.75	1.50	2.00	60	90	20	2.50	0.20	0.60	0.96
LBR900F	0.90	1.80	2.60	60	90	20	3.00	0.10	0.50	0.72

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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.

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.

R_{1max}= Maximum resistance of device when measured one hour post trip at 25℃.

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

Part number	Maximum ambient operating temperatures(℃)								
	-40	-20	0	25	40	50	60	70	85
LBR200F	0.30	0.26	0.24	0.20	0.16	0.15	0.13	0.10	0.08
LBR250F	0.38	0.33	0.28	0.25	0.21	0.18	0.16	0.14	0.10
LBR350F	0.54	0.46	0.42	0.35	0.28	0.26	0.23	0.20	0.14
LBR550F	0.86	0.76	0.66	0.55	0.46	0.42	0.36	0.31	0.24
LBR750F	1.16	1.00	0.92	0.75	0.62	0.56	0.50	0.42	0.30
LBR900F	1.42	1.24	1.08	0.90	0.74	0.66	0.58	0.50	0.36

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}, 2hours	No arcing or burning

Typical Time–to-Trip Charts at 25℃

A=LBR200F

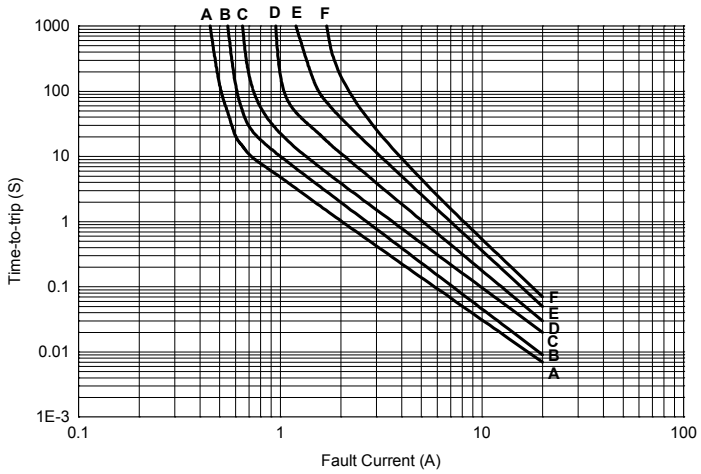
B=LBR250F

C=LBR350F

D=LBR550F

E=LBR750F

F=LBR900F



Package Information

Bulk:

LBR200F~LBR350F……1000pcs per bag

LBR550F~LBR750F……500pcs per bag

LBR900F……1000pcs per bag

Tape & Reel:

LBR200F~LBR900F……1500pcs per reel