Disc Type Polymer PTC Resettable Fuses

Features

1. Overcurrent and overtemperature protection device has a low resistance and high hold current.
2. Very low internal resistance.

Applications

1. Cylindrical Battery protection.

Ordering Information

B	DP	220	□
(1)	(2)	(3)	(4)

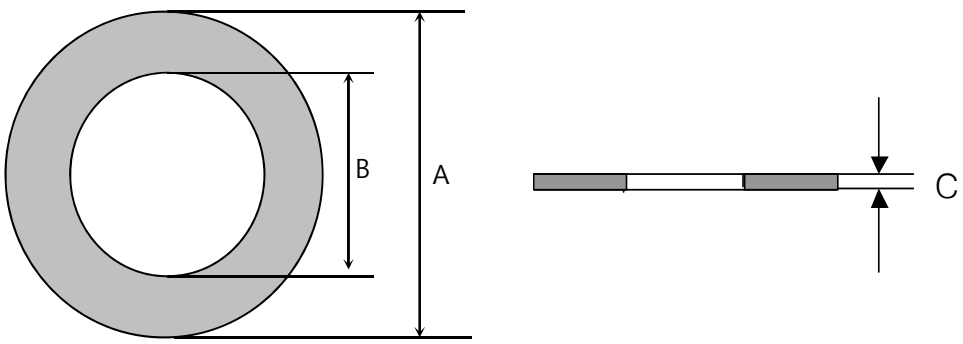
(1) Byle Technology Product
(2) Product Type
- DP : Disc type

(3) Hold Current, I_H
- 220 : 2.2A

(4) Customer Code

Shape

BDP Type



BYLE TECHNOLOGY

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Dimensions

(mm/inches)

	A		B		C	
	min	max	min	max	min	max
BDP220□	14.0	18.0	5.0	11.0	0.26	0.36
	0.55	0.71	0.20	0.43	0.01	0.01
BDP240□	14.0	18.0	5.0	11.0	0.26	0.36
	0.55	0.71	0.20	0.43	0.01	0.01
BDP260□	14.0	18.0	5.0	11.0	0.26	0.36
	0.55	0.71	0.20	0.43	0.01	0.01
BDP280□	14.0	18.0	5.0	11.0	0.26	0.36
	0.55	0.71	0.20	0.43	0.01	0.01
BDP300□	14.0	18.0	5.0	11.0	0.26	0.36
	0.55	0.71	0.20	0.43	0.01	0.01
BDP320□	14.0	18.0	5.0	11.0	0.26	0.36
	0.55	0.71	0.20	0.43	0.01	0.01

Specifications

Electrical Characteristics

P/N	V_{max}	I_{max}	I_H	I_T	$P_{d\,max}$	max. time to trip		R_{min}	R_{max}	$R_{1\,max}$	Agency
	(V)	(A)	(A)	(A)	(W)	(A)	(s)	(mΩ)	(mΩ)	(mΩ)	Recognition
BDP220□	20	40	2.20	5.20	2.5	11.0	5.0	16.0	32.0	56.0	
BDP240□	20	40	2.40	5.95	2.5	11.0	5.0	10.0	32.0	56.0	
BDP260□	20	40	2.60	6.70	2.5	11.0	5.0	7.0	15.0	31.0	
BDP280□	20	40	2.80	7.15	2.5	11.0	5.0	4.0	15.0	31.0	
BDP300□	20	40	3.00	7.50	2.5	11.0	5.0	4.0	12.0	30.0	
BDP320□	20	40	3.20	7.70	2.5	11.0	10.0	2.0	10.0	25.0	

Thermal Derating

P/N	Maximum Ambient Temperature (℃)					
	0℃		25℃		60℃	
	Hold	Trip	Hold	Trip	Hold	Trip
BDP220□	2.70	6.20	2.20	5.20	1.70	4.10
BDP240□	2.90	6.85	2.40	5.95	1.85	4.60
BDP260□	3.10	7.50	2.60	6.70	2.00	5.10
BDP280□	3.30	7.90	2.80	7.15	2.15	5.45
BDP300□	3.50	8.30	3.00	7.50	2.30	5.80
BDP320□	3.70	8.50	3.20	7.70	2.20	6.00

Phisical Characteristics

Electrode	Nickel plated Cu foil

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Environmental Specifications

Test	Test Condition	Criteria
Passive Aging	-40℃ / 1000hours	Resistance Change ±5%
	60℃ / 1000hours	Resistance Change ±20%
Humidity Aging	60℃ / 95% RH, 1000hours	Resistance Change ±30%
Thermal Shock	-40℃ / 85℃ 10 times	Resistance Change ±5%
Vibration	MIL-STD-883D Method 2026	No Change

Terms and Description

1. **Hold current (I_H)** : maximum current at which the device will not trip at 20℃
2. **Trip current (I_T)** : minimum current at which the device will always trip at 20℃.
3. **Typical power dissipation (Pd)** : Typical amount of power dissipation by the device when in tripped state in 20℃ still air environment.
4. R_{min} : Minimum device resistance at 20℃ prior to tripping
5. R_{max} : Maximum device resistance at 20℃ prior to tripping
6. $R_{1\ max}$: Maximum device resistance at 20℃ measured 1 hour post trip
7. I_{max} : Maximum interrupt current.
8. V_{max} : Maximum operating voltage.

Packaging Information

1. Standard : 1,000pcs per Bag

ROHS Compliant
Directive 2002/95/EC Compliant

Pb-Free