ELECTRIC SPECIFICATION

Electric Characteristics

Model	Vmax	Imax	Ihold @ 25	Itrip @ 25	Pd (Typ.)	Maximum Time to Trip		Resistance (Ω)		
								Initial (Ri)		Post Trip (R1)
	(V)	(A)	(A)	(A)	(W)	(A)	(Sec.)	Min.	Max.	Max.
Bp100-060	60	40	0.10	0.20	0.38	0.50	4.0	2.50	4.50	7.50
Bp170-060	60	40	0.17	0.34	0.48	0.85	3.0	2.50	5.21	8.00
Bp200-060	60	40	0.20	0.40	0.41	1.00	2.2	1.83	2.75	4.40
Bp250-060	60	40	0.25	0.50	0.45	1.25	2.5	1.00	1.95	3.00
Bp300-060	60	40	0.30	0.60	0.49	1.50	3.0	0.88	1.33	2.10
Bp400-060	60	40	0.40	0.80	0.56	2.00	3.8	0.55	0.86	1.29
Bp500-060	60	40	0.50	1.00	0.77	2.50	4.0	0.50	0.77	1.17
Bp650-060	60	40	0.65	1.30	0.88	3.25	5.3	0.31	0.48	0.72
Bp750-060	60	40	0.75	1.50	0.92	3.75	6.3	0.25	0.40	0.60
Bp900-060	60	40	0.90	1.80	0.99	4.50	7.2	0.20	0.31	0.47
BpA01.10-060	60	40	1.10	2.20	1.50	5.50	8.2	0.15	0.25	0.38
BpA01.35-060	60	40	1.35	2.70	1.70	6.75	9.6	0.12	0.19	0.30
BpA01.60-060	60	40	1.60	3.20	1.90	8.00	11.4	0.09	0.14	0.22
BpA01.85-060	60	40	1.85	3.70	2.10	9.25	12.6	0.08	0.12	0.19
BpA02.50-060	60	40	2.50	5.00	2.50	12.50	15.6	0.05	0.08	0.13
BpA03.00-060	60	40	3.00	6.00	2.80	15.00	19.8	0.04	0.06	0.10
BpA03.75-060	60	40	3.75	7.50	3.20	18.75	24.0	0.03	0.05	0.08

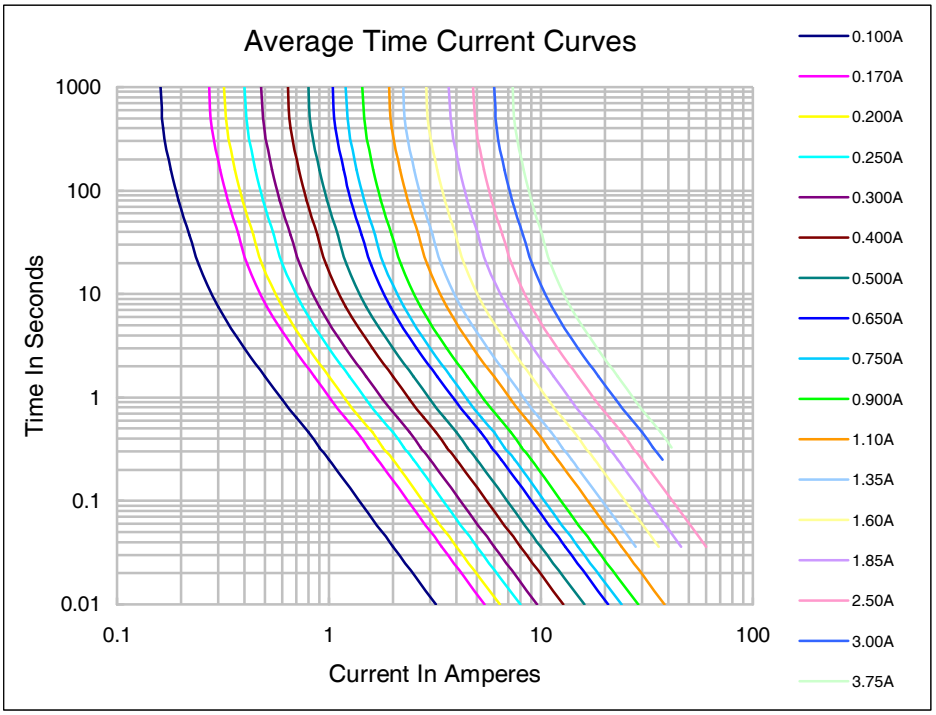
Vmax. : Maximum voltage at which the device can withstand without damage at rated maximum current.

Imax. : Maximum fault current at which the device can withstand without damage at rated maximum voltage.

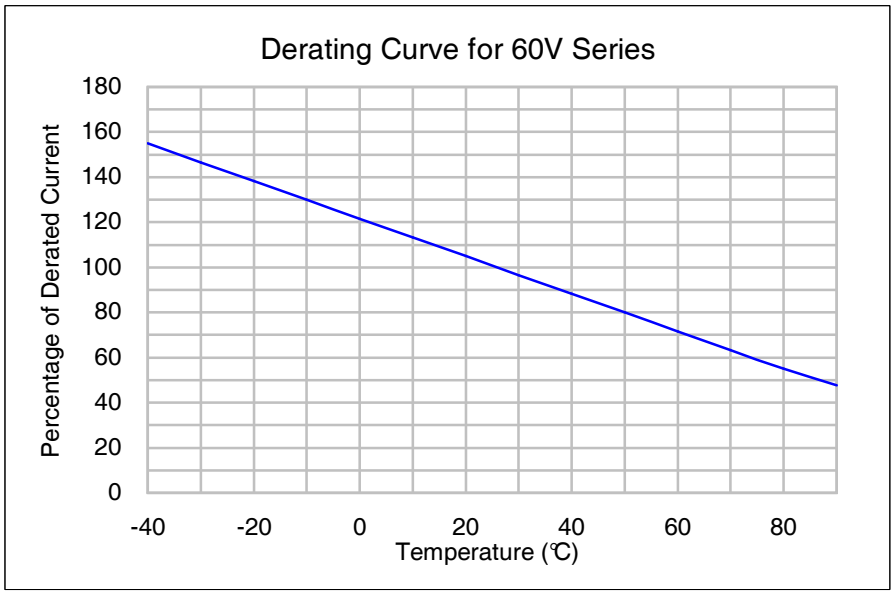
Ihold : Hold current. Maximum current at which the device will not trip in 25 still air.

Itrip	: Trip current. Minimum current at which the device will always trip in 23 still air.
Pd	: Typical power dissipated from device when in the tripped state in 23 still air environment at rated voltage.
Ri max./ Ri min.	: Device resistance range prior to tripping at 23 .
R1max.	: Maximum device resistance one hour after it is tripped at 23 .

Average Time Current Curve



Thermal Derating Curve

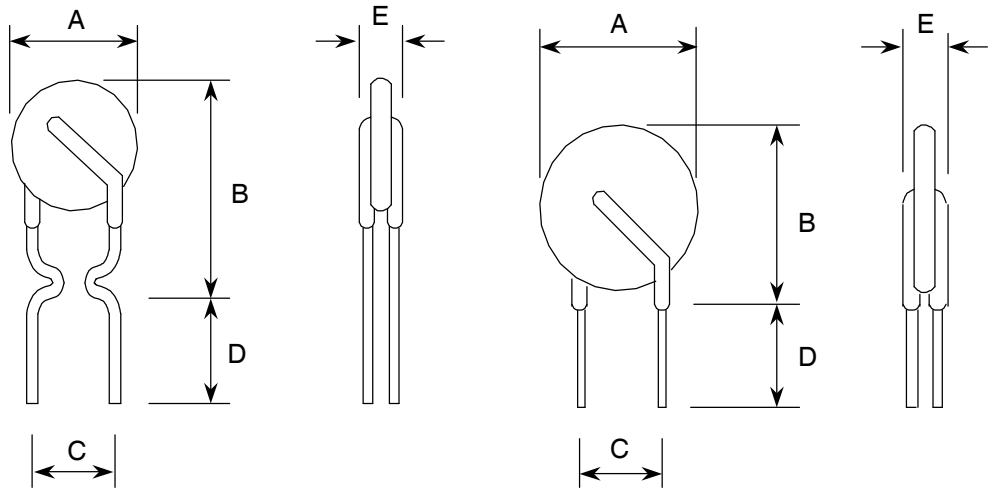


MECHANICAL SPECIFICATIONS

Physical Dimensions (unit: mm)

Model	A	B	C	D	E
	Max.	Max.	±0.8	Min.	Max.
Bp100-060	7.4	12.7	5.1	7.6	3.1
Bp170-060	7.4	12.7	5.1	7.6	3.1
Bp200-060	7.4	12.7	5.1	7.6	3.1
Bp250-060	7.4	12.7	5.1	7.6	3.1
Bp300-060	7.4	13.0	5.1	7.6	3.1
Bp400-060	7.6	13.5	5.1	7.6	3.1
Bp500-060	7.9	13.7	5.1	7.6	3.1
Bp650-060	9.7	14.5	5.1	7.6	3.1
Bp750-060	10.4	15.2	5.1	7.6	3.1
Bp900-060	11.7	15.8	5.1	7.6	3.1
BpA01.10-060	13.0	18.0	5.1	7.6	3.1
BpA01.35-060	14.5	19.6	5.1	7.6	3.1
BpA01.60-060	16.3	21.3	5.1	7.6	3.1
BpA01.85-060	17.8	22.9	5.1	7.6	3.1
BpA2.50-060	21.3	26.4	10.2	7.6	3.1
BpA03.00-060	24.9	30.0	10.2	7.6	3.1
BpA03.75-060	28.5	33.5	10.2	7.6	3.1

Outline Drawing



Note : Stand-offs only used for Bp100-060~Bp900-060

ENVIRONMENT

Operating Conditions

Operating Temperature : -40 to 85
Device Surface Temperature : 125 maximum

Environmental Specifications

The device specified follows the UL Standard for Safety for Thermistor-Type Devices, UL1434, April 3, 2000 Edition.

TEST ITEM	EVALUATION	MEASUREMENT
Resistance/Temperature (R/T) Measurement	The measured resistance at various temperatures were recorded for each "as-received" and "after conditioning" sample.	Resistance and Temperature
1000 Hour Thermal Aging	Each sample was conditioned by letting the devices remain in their "tripped" state for 1000 hours.	R/T Curves before and after each test
Heat-Cold-Humidity Cycling	24 hrs at the steady-state temperature, 168 hrs at a relative humidity of 90 - 95% at 40 . 8 hrs at 0 .	R/T Curves before and after each test
Overload and Endurance	50 cycles at a 120% maximum current (Imax) and maximum voltage (Vmax). 6,000 cycles at a maximum voltage and current over than a 300% trip current (Itrip).	R/T Curves before and after each test
Cold Operational	1,000 cycles in the Endurance Test, except the samples were operated in a freezer at 0°C.	R/T Curves before and after each test
Thermal Runaway	0 volt to 200% of Vmax at 2-minute intervals. The 200% voltage was maintained for 2 minutes.	No burning, arcing and breakdown