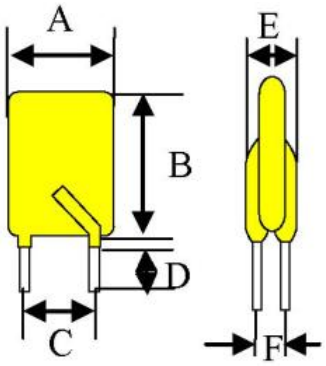
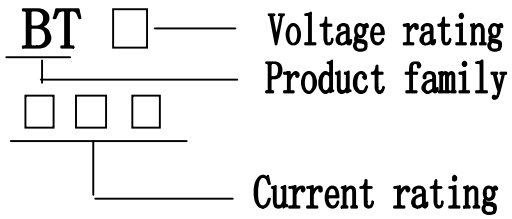
BT60 Series

Applications:

- Power supply
- High capability battery
- Motors and Wire harness
- USB ports
- Linear AC/DCadapters
- Transformers



Marking system



Lead materials: Tin-plate metal wire.

Product Dimensions (mm)

Part number	A	B	C	D	E	F	STYLE	Lead
	Max	Max	Typ	Min	Max	Typ		Size (Φ)
BT60-005	0.05	0.10	5.0	60	40	0.26	7.30	11.1
BT60-010	0.10	0.20	8.0	60	40	0.51	2.50	4.50
BT60-017	0.17	0.34	5.0	60	40	0.60	2.00	3.20
BT60-020	0.20	0.40	3.6	60	40	0.52	1.50	2.84
BT60-025	0.25	0.50	3.2	60	40	0.52	1.00	1.95
BT60-030	0.30	0.60	3.0	60	40	0.59	0.76	1.36
BT60-040	0.40	0.80	3.8	60	40	0.66	0.52	0.86
BT60-050	0.50	1.00	4.0	60	40	0.80	0.41	0.77
BT60-065	0.65	1.30	5.3	60	40	0.90	0.27	0.48
BT60-075	0.75	1.50	6.3	60	40	0.95	0.18	0.40
BT60-090	0.90	1.80	7.2	60	40	1.00	0.14	0.31
BT60-110	1.10	2.20	8.2	60	40	1.51	0.14	0.25
BT60-135	1.35	2.70	9.6	60	40	1.71	0.12	0.19
BT60-160	1.60	3.20	11.4	60	40	1.98	0.09	0.14
BT60-185	1.85	3.70	12.6	60	40	2.10	0.08	0.12
BT60-250	2.50	5.00	15.6	60	40	2.50	0.05	0.08
BT60-300	3.00	6.00	19.8	60	40	2.80	0.04	0.06
BT60-375	3.75	7.50	24.0	60	40	3.20	0.03	0.05

Electrical Characteristics

Part number	I_H	I_T	T_{trip}	V_{max}	I_{max}	Pd_{typ}	R_{min}	R_{max}
	(A)	(A)	(s)	(V)	(w)	(A)	(Ω)	(Ω)
BT60-005	0.05	0.10	5.0	60	40	0.26	7.30	11.10
BT60-010	0.10	0.20	8.0	60	40	0.51	2.50	4.50
BT60-017	0.17	0.34	5.0	60	40	0.60	2.00	3.20
BT60-020	0.20	0.40	3.6	60	40	0.52	1.50	2.84
BT60-025	0.25	0.50	3.2	60	40	0.52	1.00	1.95
BT60-030	0.30	0.60	3.0	60	40	0.59	0.76	1.36

BT60-040	0.40	0.80	3.8	60	40	0.66	0.52	0.86
BT60-050	0.50	1.00	4.0	60	40	0.80	0.41	0.77
BT60-065	0.65	1.30	5.3	60	40	0.90	0.27	0.48
BT60-075	0.75	1.50	6.3	60	40	0.95	0.18	0.40
BT60-090	0.90	1.80	7.2	60	40	1.00	0.14	0.31
BT60-110	1.10	2.20	8.2	60	40	1.51	0.14	0.25
BT60-135	1.35	2.70	9.6	60	40	1.71	0.12	0.19
BT60-160	1.60	3.20	11.4	60	40	1.98	0.09	0.14
BT60-185	1.85	3.70	12.6	60	40	2.10	0.08	0.12
BT60-250	2.50	5.00	15.6	60	40	2.50	0.05	0.08
BT60-300	3.00	6.00	19.8	60	40	2.80	0.04	0.06
BT60-375	3.75	7.50	24.0	60	40	3.20	0.03	0.05

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.
T_{trip}=Maximum time to trip(s) at assigned current.
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.
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-I_H(A)

Part number	Maximum ambient operating temperatures(℃)								
	-40	-20	0	25	40	50	60	70	85
BT60-005	0.077	0.069	0.061	0.050	0.044	0.040	0.036	0.032	0.025
BT60-010	0.18	0.15	0.13	0.10	0.08	0.07	0.06	0.05	0.03
BT60-017	0.28	0.24	0.20	0.17	0.14	0.12	0.10	0.09	0.06
BT60-020	0.34	0.29	0.25	0.20	0.16	0.14	0.13	0.10	0.07
BT60-025	0.42	0.36	0.31	0.25	0.20	0.18	0.16	0.12	0.09
BT60-030	0.52	0.44	0.38	0.30	0.24	0.22	0.18	0.14	0.10
BT60-040	0.66	0.57	0.50	0.40	0.32	0.29	0.24	0.20	0.14
BT60-050	0.83	0.74	0.63	0.50	0.41	0.36	0.30	0.25	0.18
BT60-065	1.10	0.95	0.82	0.65	0.53	0.47	0.40	0.33	0.24
BT60-075	1.26	1.11	0.95	0.75	0.61	0.54	0.45	0.39	0.28
BT60-090	1.52	1.30	1.15	0.90	0.73	0.65	0.55	0.47	0.33
BT60-110	1.82	1.60	1.35	1.10	0.89	0.79	0.65	0.55	0.40
BT60-135	2.20	1.91	1.65	1.35	1.09	0.96	0.80	0.68	0.50
BT60-160	2.60	2.30	1.95	1.60	1.30	1.13	1.00	0.80	0.60
BT60-185	3.00	2.63	2.30	1.85	1.50	1.33	1.12	0.92	0.67
BT60-250	4.05	3.58	3.02	2.50	2.02	1.80	1.55	1.30	0.90
BT60-300	4.82	4.16	3.62	3.00	2.43	2.16	1.85	1.50	1.09
BT60-375	6.02	5.19	4.50	3.75	3.02	2.68	2.30	1.95	1.39

Typical Time-to-trip Charts at 25℃

A=BT60-010
B=BT60-017
C=BT60-020
D=BT60-025
E=BT60-030
F=BT60-040
G=BT60-050
H=BT60-065
I= BT60-075
J=BT60-090
K=BT60-110
L=BT60-135
M=BT60-160
N=BT60-185
O=BT60-250
P=BT60-300
Q=BT60-375