

DATA SHEET

NEGATIVE TEMPERATURE COEFFICIENT MONITOR/SPS/FAX

NT series

RoHS compliant & Halogen free

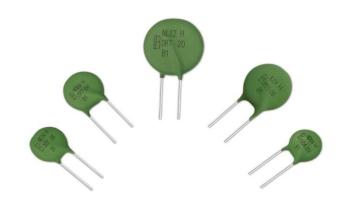




NTC ThermistorsData Sheet

Features

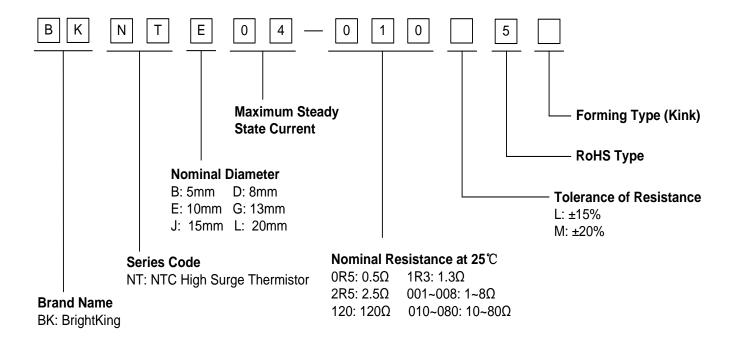
- ■Effectively restrain surge
- ■Low power loss under the stable state
- Over-current wide control range and fast response
- ■Thermal and electrical characteristics with high stability
- Wide range of electrical specifications
- ■RoHS& Halogen Free (HF) compliant
- Safety certification: UL: E133510



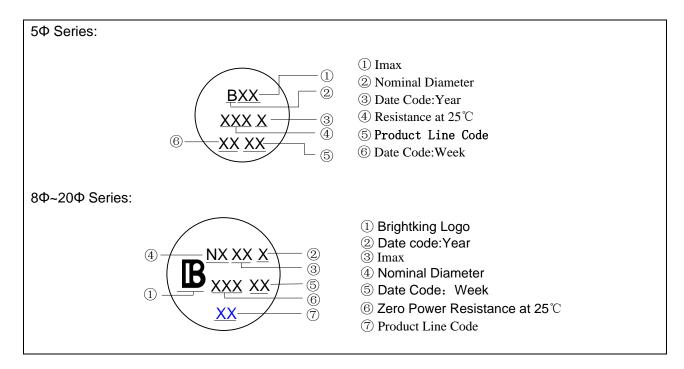
Applications

- Monitor, Sps, Fax, Telecom, Adaptor etc.
- Power supply, Communications equipment etc.

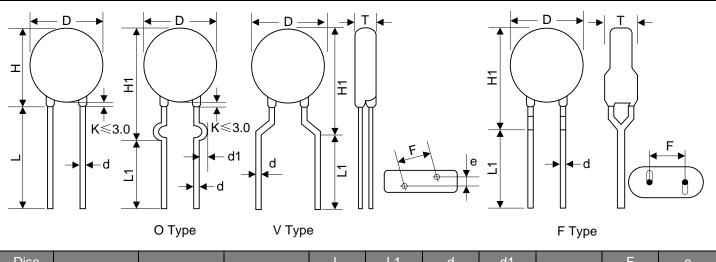
Part Number Code



Marking



Dimensions (Unit: mm)



Disc Ф	D	н	H1	L (Min.)	L1 (Min.)	d (±0.02)	d1 (±0.4)	Т	F (±0.8)	e (±0.5)
5(B)	5.0~7.0	/	5.5~10.0	/	15	0.60	1.4	3.5~5.5	5.0	1.6
8(D)	8.0~10.5	8.5~12.0	10.0~14.0	20.0	15	0.80	1.4	3.5~5.5	5.0	2.0
10(E)	10.0~13.0	10.5~14.0	13.0~18.0	20.0	15	0.80	1.4	3.5~6.0	5.0	2.1
13(G)	13.0~15.5	13.5~18.0	16.0~22.0	20.0	15	1.00	1.6	3.5~6.0	7.5	2.9
15(J)	15.0~17.5	15.5~21.0	18.0~25.0	20.0	15	1.00	1.6	4.0~6.5	7.5	3.1
20(L)	20.0~24.0	20.5~28.0	24.0~32.0	20.0	15	1.00	1.6	4.5~7.5	7.5	3.6

Remarks: "V" type lead is the default lead shape for 5D products, normal straight lead shape for others.



Electrical Characteristics

		Zero	Maximum Steady	Typic	al value	Recommend	Maximum	Operating
Nominal Diameter (mm)	Part Number	Power Resistance at 25℃	State Current at 25°C	Thermal Time Constant	Thermal Dissipation Constant	Capacitance 240Vac	Steady Power	Temperature Range
		(Ω)	(A)	(s)	(mW/℃)	(µF)	(VV)	(℃)
	BKNTB02-005□5	5	2	35	7	30	1.5	-40~+170
	BKNTB01-010□5	10	1	35	7	30	1.5	-40~+170
	BKNTB02-006□5	6	2	35	7	30	1.5	-40~+170
	BKNTB02-007□5	7	2	35	7	30	1.5	-40~+170
5(B)	BKNTB02-008□5	8	2	35	7	30	1.5	-40~+170
J(B)	BKNTB02-009□5	9	2	35	7	30	1.5	-40~+170
	BKNTB02-010□5	10	2	35	7	30	1.5	-40~+170
	BKNTB01-012□5	12	1	35	7	30	1.5	-40~+170
	BKNTB02-012□5	12	2	35	7	30	1.5	-40~+170
	BKNTBR25-045□5	45	0.25	35	7	30	1.5	-40~+170
	BKNTD04-003□5	3	4	48	12	120	2.3	-40~+170
	BKNTD04-004□5	4	4	48	12	120	2.3	-40~+170
	BKNTD04-005□5	5	4	48	9	120	2.3	-40~+170
8(D)	BKNTD04-006□5	6	4	48	9	120	2.3	-40~+170
O(D)	BKNTD04-007□5	7	4	48	9	120	2.3	-40~+170
	BKNTD03-008□5	8	3	45	12	120	2.3	-40~+170
	BKNTD03-009□5	9	3	45	12	120	2.3	-40~+170
	BKNTD03-010□5	10	3	45	12	120	2.3	-40~+170
	BKNTE05-001□5	1	5	59	12	330	2.5	-40~+170
	BKNTE05-002 ₂ 5	2	5	59	12	330	2.5	-40~+170
	BKNTE05-003□5	3	5	59	12	330	2.5	-40~+170
	BKNTE04-005□5	5	4	59	12	330	2.5	-40~+170
	BKNTE04-006□5	6	4	59	12	330	2.5	-40~+170
	BKNTE04-007□5	7	4	59	12	330	2.5	-40~+170
10(E)	BKNTE04-008□5	8	4	59	12	330	2.5	-40~+170
	BKNTE04-009□5	9	4	59	12	330	2.5	-40~+170
	BKNTE04-010□5	10	4	59	12	330	2.5	-40~+170
	BKNTE03-011□5	11	3	58	11	230	2.5	-40~+170
	BKNTE03-012□5	12	3	58	11	230	2.5	-40~+170
	BKNTE03-013□5	13	3	58	11	230	2.5	-40~+170
	BKNTE03-014□5	14	3	58	11	230	2.5	-40~+170

Electrical Characteristics

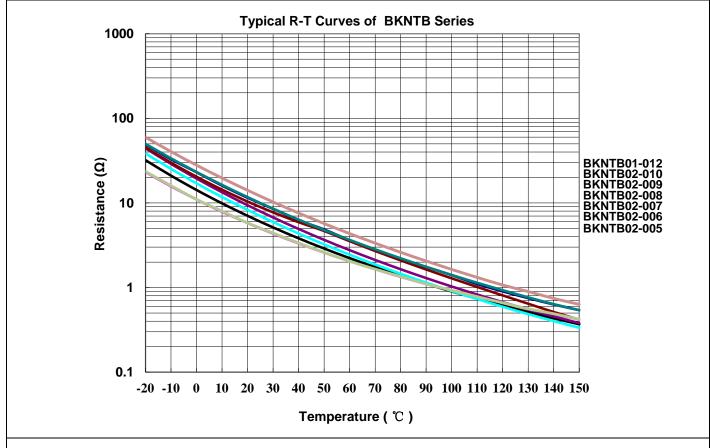
		Zero	Maximum Steady	Typic	al value	Recommend	Maximum Steady Power	Operating Temperature Range
Nominal Diameter (mm)	Part Number	Power Resistance at 25℃	State Current at 25℃	Thermal Time Constant	Thermal Dissipation Constant	Capacitance 240Vac		
		(Ω)	(A)	(s)	(mW/°C)	(μF)	(VV)	(℃)
	BKNTE03-015□5	15	3	62	11	230	2.5	-40~+170
	BKNTE03-016□5	16	3	62	11	230	2.5	-40~+170
	BKNTE03-017□5	17	3	62	11	230	2.5	-40~+170
10/E)	BKNTE03-018□5	18	3	62	11	230	2.5	-40~+170
10(E)	BKNTE03-019□5	19	3	62	11	230	2.5	-40~+170
	BKNTE03-020□5	20	3	62	11	230	2.5	-40~+170
	BKNTE03-021□5	21	3	62	11	230	2.5	-40~+170
	BKNTE03-022□5	22	3	62	11	230	2.5	-40~+170
	BKNTG07-001□5	1	7	85	18	430	3	-40~+200
	BKNTG07-002□5	2	7	85	18	430	3	-40~+200
	BKNTG07-003□5	3	7	85	18	430	3	-40~+200
	BKNTG06-005□5	5	6	93	17	430	3	-40~+200
	BKNTG05-006□5	6	5	90	17	430	3	-40~+200
	BKNTG05-007□5	7	5	80	19	430	3	-40~+200
	BKNTG05-008□5	8	5	91	15	430	3	-40~+200
	BKNTG05-009□5	9	5	89	15	430	3	-40~+200
	BKNTG05-010□5	10	5	87	14	430	3	-40~+200
13(G)	BKNTG04-011□5	11	4	87	14	330	3	-40~+200
	BKNTG04-012□5	12	4	87	14	330	3	-40~+200
	BKNTG04-013□5	13	4	87	14	330	3	-40~+200
	BKNTG04-014□5	14	4	87	14	330	3	-40~+200
	BKNTG04-015□5	15	4	87	14	330	3	-40~+200
	BKNTG04-016□5	16	4	87	15	330	3	-40~+200
	BKNTG04-017□5	17	4	87	15	330	3	-40~+200
	BKNTG04-018□5	18	4	87	15	330	3	-40~+200
	BKNTG04-019□5	19	4	87	15	330	3	-40~+200
	BKNTG04-020□5	20	4	87	15	330	3	-40~+200

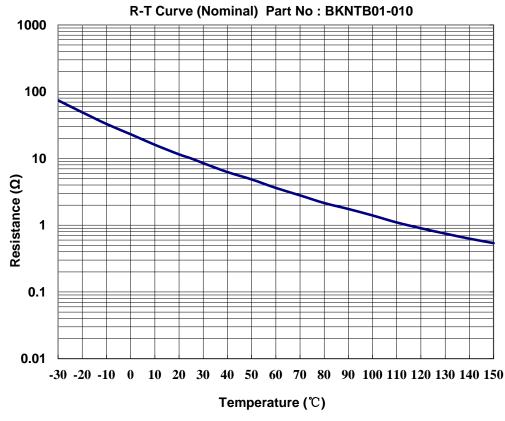


Electrical Characteristics

		Zero	Maximum Steady	Typic	al value	Recommend	Maximum	Operating
Nominal Diameter (mm)	Part Number	Power Resistance at 25℃	State Current at 25°C	Thermal Time Constant	Thermal Dissipation Constant	Capacitance 240Vac	Steady Power	Temperature Range
		(Ω)	(A)	(s)	(mW/℃)	(µF)	(W)	(℃)
	BKNTJ09-001□5	1	9	104	20	640	4	-40~+200
	BKNTJ09-002□5	2	9	104	20	640	4	-40~+200
	BKNTJ09-2R5□5	2.5	9	104	20	640	4	-40~+200
	BKNTJ09-003□5	3	9	106	20	640	4	-40~+200
	BKNTJ08-005□5	5	8	110	20	640	4	-40~+200
	BKNTJ06-008□5	8	6	99	15	640	4	-40~+200
45(1)	BKNTJ06-009□5	9	6	99	16	640	4	-40~+200
15(J)	BKNTJ06-010□5	10	6	99	19	640	4	-40~+200
	BKNTJ06-011□5	11	6	99	19	560	4	-40~+200
	BKNTJ06-012□5	12	6	99	21	560	4	-40~+200
	BKNTJ06-013□5	13	6	99	19	560	4	-40~+200
	BKNTJ06-014□5	14	6	99	19	560	4	-40~+200
	BKNTJ06-015□5	15	6	99	17	560	4	-40~+200
	BKNTJ04-040□5	40	4	101	20	560	4	-40~+200
	BKNTL12-0R7□5	0.7	12	160	28	820	5	-40~+200
	BKNTL12-001□5	1	12	160	28	820	5	-40~+200
	BKNTL12-002□5	2	12	160	28	820	5	-40~+200
20(L)	BKNTL12-2R5□5	2.5	12	120	24	820	5	-40~+200
	BKNTL12-003□5	3	12	130	24	820	5	-40~+200
	BKNTL10-005□5	5	10	144	24	820	5	-40~+200
	BKNTL10-006□5	6	10	144	24	820	5	-40~+200

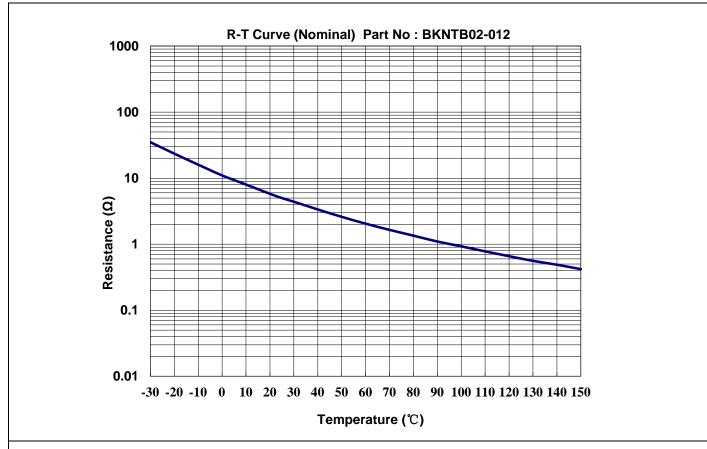


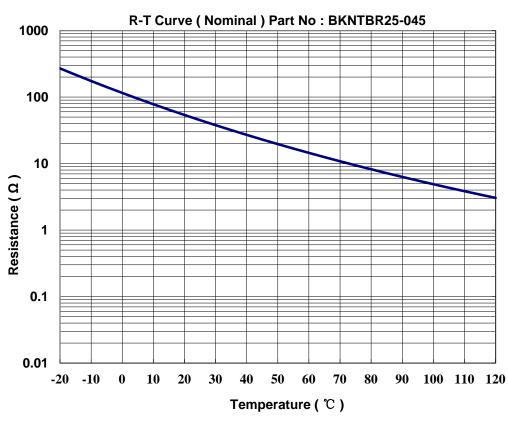






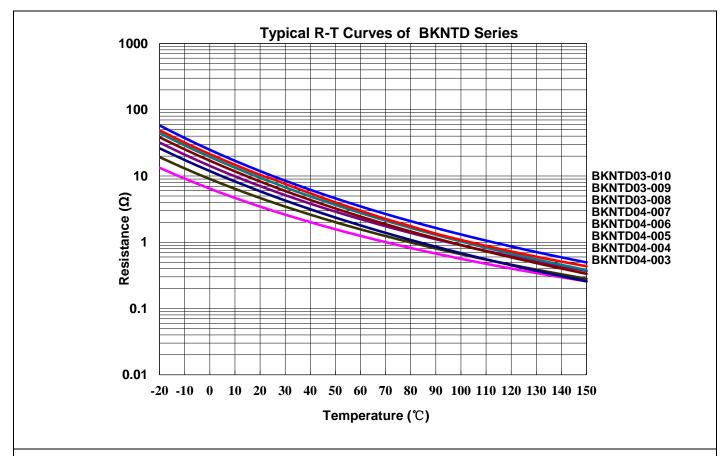
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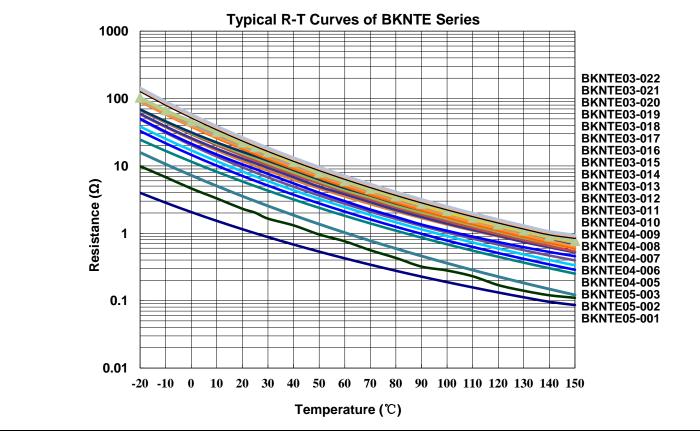


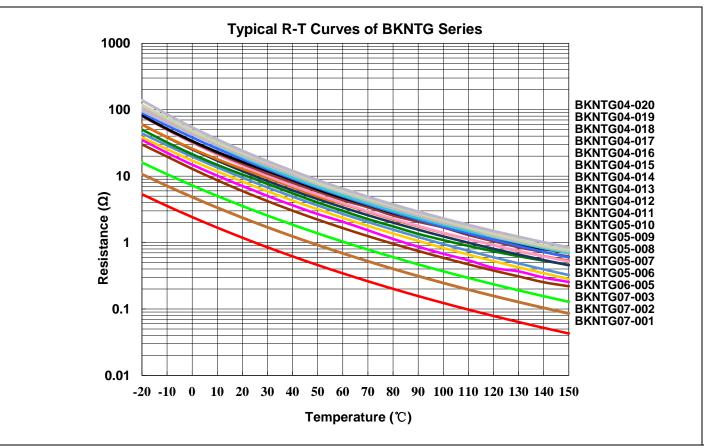


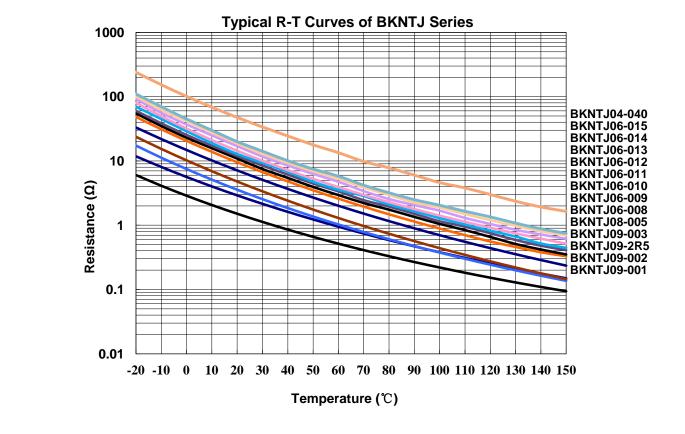




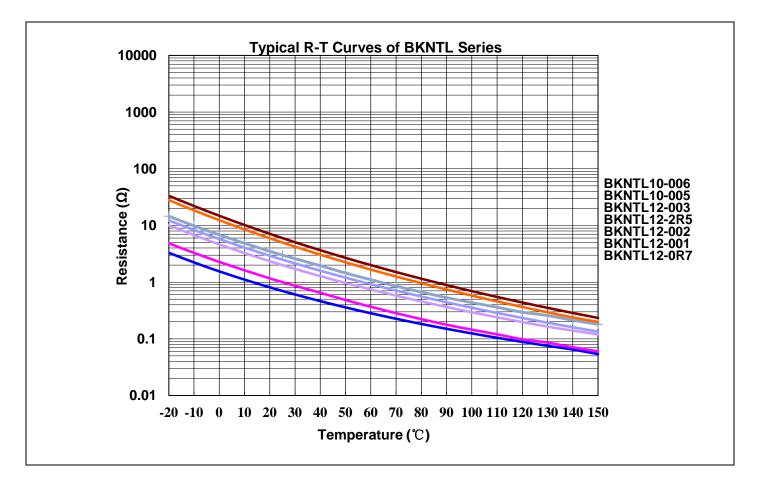




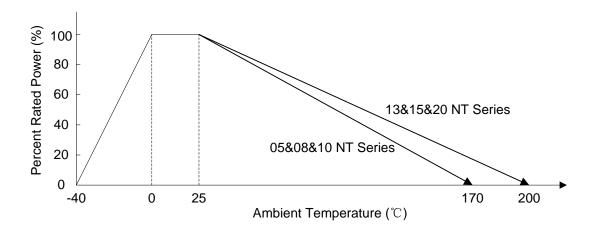






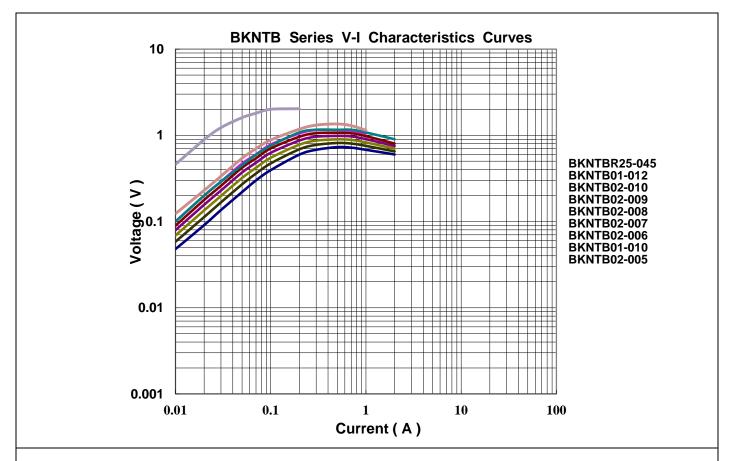


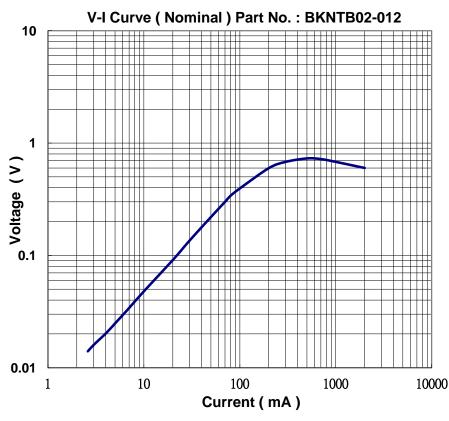
Maximum Power Rating



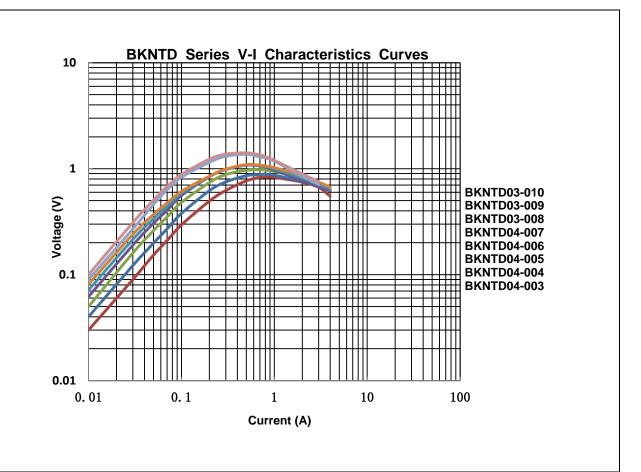


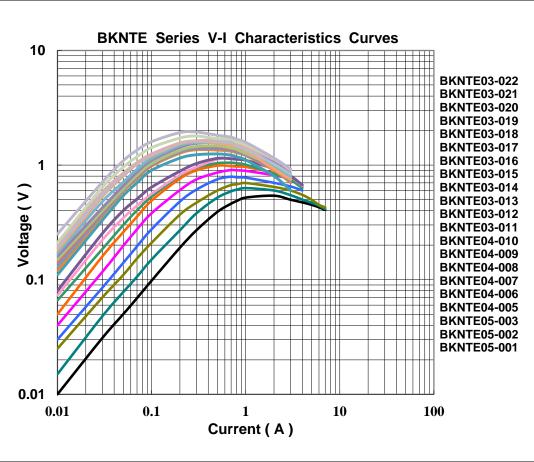
V–I Characteristic Curves





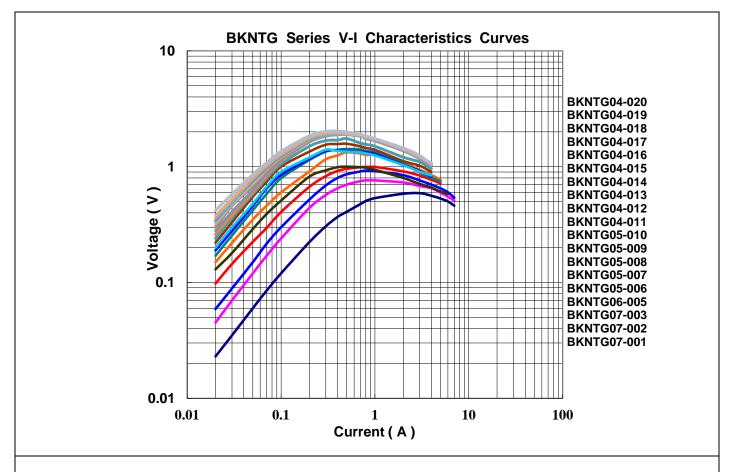
V-I Characteristic Curves

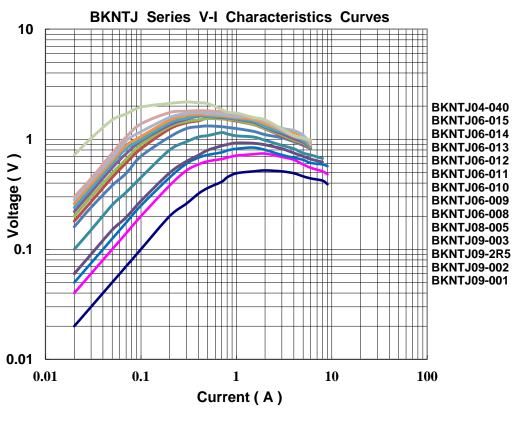






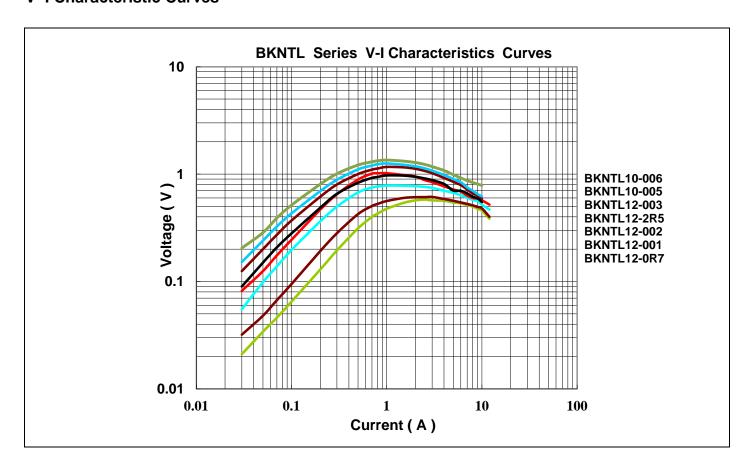
V-I Characteristic Curves



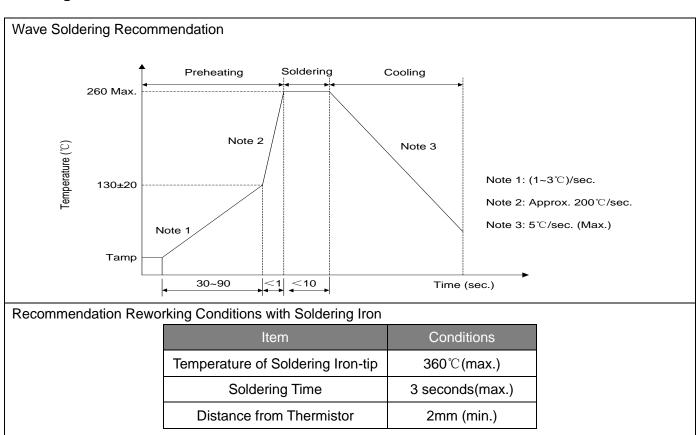




V-I Characteristic Curves



Soldering Recommendation





Packaging

■Bulk Packing

Bulk (Unit: mm)	Quantity		
	1400pcs/box (Φ5)		
	1000pcs/box (Φ8、Φ10)		
65 Max.	600pcs/box (Φ13)		
	500pcs/box (Φ15)		
	300pcs/box (Φ20)		

Warehouse Storage Conditions

- Storage temperature: -10° C ~+ 40° C.
- Relative humidity: ≤75%RH.
- Keep away from corrosive atmosphere and sunlight.
- Period of Storage: 1 year.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

YAGEO:

 BKNTB02-008M5
 BKNTD03-008M5
 BKNTB02-005L5
 BKNTE03-021L5
 BKNTD04-006M5
 BKNTB02-010M5

 BKNTE03-015M5
 BKNTE05-003L5
 BKNTG04-013M5
 BKNTB01-010M5
 BKNTD04-003M5
 BKNTG05-006M5

 BKNTG04-012L5
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