

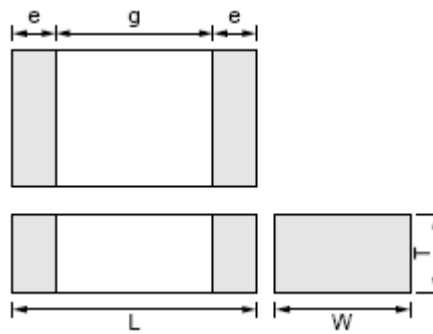
This chip PTC Thermistor is a reflow soldering SMD type for overheat sensing for power transistors, power diodes and power ICs in hybrid circuits.

1: Features

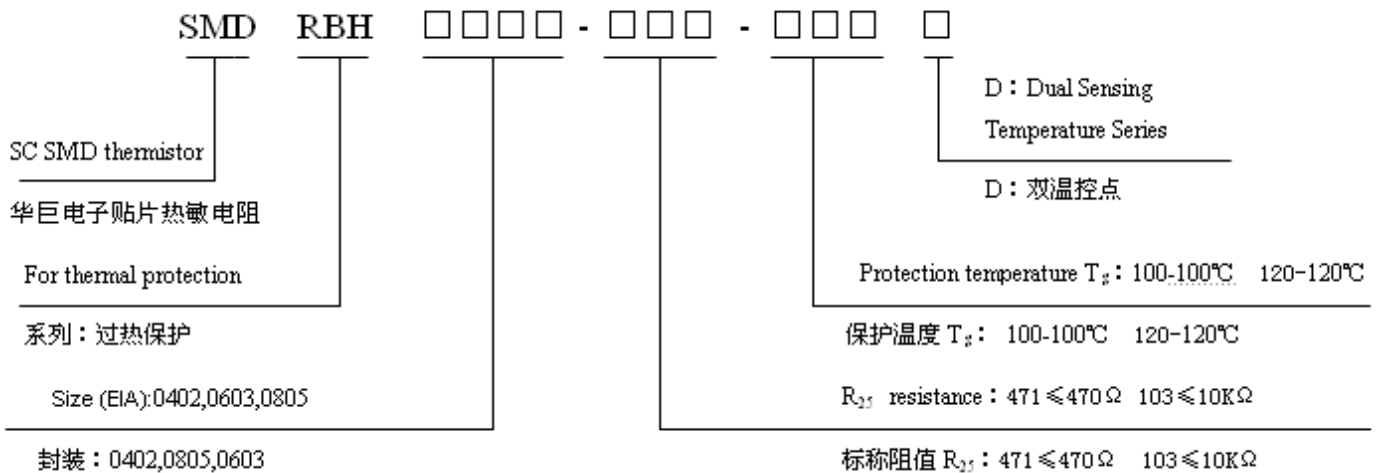
1. SMD type is helpful for miniaturizing circuits because of its small size and light weight.
2. Excellent thermal response due to small size
3. Solid-state construction provides excellent resistance to mechanical vibration and impact resistance.
4. Contactless operation provides noiseless operation



Dimension (unit: mm)



Type	L	W	T	e	g
0402	1.00 ± 0.10	0.50 ± 0.10	0.30 ± 0.10	0.20 ± 0.10	0.25 ± 0.10
0603	1.60 ± 0.15	0.80 ± 0.15	0.40 ± 0.10	0.30 ± 0.20	0.30 ± 0.20
0805	2.00 ± 0.20	1.25 ± 0.15	0.50 ± 0.10	0.40 ± 0.20	0.40 ± 0.20



1.1 Single Sensing Temperature Series

Part Number	Maximum Voltage	Sensing Temperature	Resistance	TS-5(°C)		TS+5(°C)		Operating Temperature Range(°C)				
	Vmax (Vdc)	Ts (°C)	R25 (Ω)	TL(°C)	RL (Ω)	TH (°C)	RH (Ω)	(°C)				
SMDRBH-0402-471-105	32	105±5	470	100	≤4.7K	110	≥4.7K	-25~+120				
SMDRBH-0402-471-115		115±5		110		120		-25~+130				
SMDRBH-0402-471-125		125±5		120		130		-25~+140				
SMDRBH-0402-103-130	24	130±5	10K	125	≤4.7M	135	≥4.7M	-25~+145				
SMDRBH-0603-101-130		130±5	100	125	≤1K	135	≥1K	-25~+145				
SMDRBH-0603-221-105	32	105±5	220	100	≤2.2K	110	≥2.2K	-25~+120				
SMDRBH-0603-471-65		65±5	470	60	≤4.7K	70	≥4.7K	-25~+80				
SMDRBH-0603-471-75		75±5		70		80		-25~+90				
SMDRBH-0603-471-85		85±5		80		90		-25~+100				
SMDRBH-0603-471-95		95±5		90		100		-25~+110				
SMDRBH-0603-471-105		105±5		100		110		-25~+120				
SMDRBH-0603-471-115		115±5		110		120		-25~+130				
SMDRBH-0603-471-125		125±5		120		130		-25~+140				
SMDRBH-0603-471-135		135±5		130		140		-25~+150				
SMDRBH-0603-472-105		105±5		4.7K		100		≤47K	110	≥47K	-25~+120	
SMDRBH-0603-103-110		110±5		10K		105		≤4.7M	115	≥4.7M	-25~+125	
SMDRBH-0603-103-120		120±5				115			125		-25~+130	
SMDRBH-0603-103-130		130±5				125			135		-25~+145	
SMDRBH-0603-473-130		130±5		47K		125		≤4.7M		≥4.7M	-25~+145	
SMDRBH-0805-101-110		24		110±5		100		105	≤1K	115	≥1K	-25~+125
SMDRBH-0805-101-115				115±5				110		120		-25~+130
SMDRBH-0805-101-130				130±5				125		135		-25~+145
SMDRBH-0805-471-65		32		65±5		470		60	≤4.7K	70	≥4.7K	-25~+80
SMDRBH-0805-471-75				75±5				70		80		-25~+90
SMDRBH-0805-471-85	85±5			80				90		-25~+100		
SMDRBH-0805-471-95	95±5		90	100	-25~+110							
SMDRBH-0805-471-105	105±5		100	110	-25~+120							
SMDRBH-0805-471-115	115±5		110	120	-25~+130							
SMDRBH-0805-471-125	125±5		120	130	-25~+140							
SMDRBH-0805-471-135	135±5		130	140	-25~+150							
SMDRBH-0805-103-130	130±5		10K	125	≤4.7M		135	≥4.7M		-25~+145		

1.2 Dual Sensing Temperature Series

Part Number	Maximum Voltage	Resistance	Sensing Temperature1	Sensing Temperature2	Operating Temperature Range(°C)
	Vmax (Vdc)	R25 (Ω)	at 4.7K(°C)	at 4.7K(°C)	(°C)
			Ts1	Ts1	
SMDRBH-0402-541-115D	32	540	115±5	135±7	-25~+150
SMDRBH-0402-102-115D		1K	115±5	130±3	-25~+140
SMDRBH-0402-102-125D		1K	125±5	140±3	-25~+150
SMDRBH-0603-471-065D		470	65±5	80±7	-25~+90