

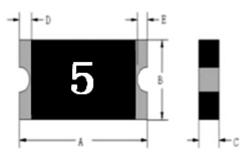
Version: 1.0 Document code: HB-WI7.3-945-2018 Effective date : 2024-06-24 Page: 1 of 3

SMD0805C-050C-15V

RoHS 📚

eature				
Resettable	over current and over tempera	 Low resist 	ance	
Small size	of 0805	 Fast time- 	to-trip	
 Small footp 	rint	RoHS com	plaint	
pplication				
Computer	Computer Industrial controls		Multimedia	
 Battery 	Auto	Automotive		5
 Mobile phone 	• Porta	 Portable electronics 		broadband
art Numbering	l			
<u>SMD0805</u>		— Voltage — Category — Hold Current — Series		

Product Dimensions in Millimeter



Part Number		Α	В		С		D	E
	Min	Max	Min	Max	Min	Max	Min	Min
SMD0805-050C-15V	2.00	2.20	1.20	1.50	0.50	1.10	0.20	0.10

Electrical Characteristics

	I(A	A)	V _{max}	I _{max}	Pd _{typ}	Ttrip)	R _{min}	R _{1max}
Part Number	25	C				25 ℃		25 ℃	
	Hold	Trip	(V)	(A)	(W)	Current(A)	Time(S)	(Ω)	(Ω)
SMD0805-050C-15V	0.50	1.00	15	40	0.5	8.0	0.10	0.10	0.85



Surface-Mount Device

SMD0805C-050C-15V

RoHS 🤝

I_H=Hold current: maximum current at which the device will not trip at 25° C still air reflow soldering of 260° C for 20 sec. I_T=Trip current: minimum current at which the device will always trip at 25° C still air reflow soldering of 260° C for 20 sec.

 V_{max} =Maximum continuous voltage device can withstand without damage at rated current

 I_{max} =Maximum fault current device can withstand without damage at rated voltage.

 T_{trip} =Maximum time to trip(s) at assigned current reflow soldering of 260 $^\circ C$ for 20 sec.

 $\mathsf{Pd}_{\mathsf{typ}}$ =Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R_{min}= Minimum resistance of device in initial (un-soldered) state.

 R_{1max} =Maximum resistance of device at 25 °C measured one hour after reflow soldering of 260 °C for 20 sec.

Value specified is determined by using the PWB with 0.030 *1.5oz copper traces.

Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

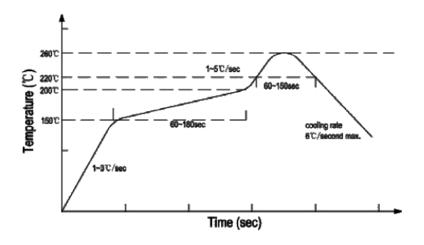
Environmental Specifications

Test	Test Conditions	Accept /Reject Criteria
Recommended storage conditions	40°C max, 70% R.H. max	No change
Passive aging:	85°C, 1000 hours	≤ R _{1max}
Moisture Resistance	85% RH,85℃,1000hrs	≤ R _{1max}
Thermal Shock	MIL-STD-202 Method 107G +85°C /-40°C 20 times	≤ R _{1max}
Vibration	MIL-STD-883C, Method 2007.1, Condition A	No change
Solvent Resistance	MIL-STD-202, Method 215	No change
Moisture Level Sensitivity	Level 2, J-STD-020C	No change

Thermal Derating [Hold Current (A) at Ambient Temperature (°C)]

Don't Number	Maximum Ambient Operating Temperature (°C)								
Part Number	-40	-20	0	25	40	50	60	70	85
SMD0805-050C-15V	0.68	0.62	0.55	0.50	0.40	0.37	0.33	0.29	0.23

Solder Reflow Recommendation



Reflow --curve



Surface-Mount Device

SMD0805C-050C-15V

RoHS 📚

Recommended reflow methods:IR,hot air oven ,nitrogen oven

Devices can be cleaned using standard industry methods and solvents.

NOTE:

If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Caution: Operation beyond the rated voltage or current may result in rupture electrical arcing or flame

Packaging Quantity and Marking

Device	Marking	Standard Quantity (pcs)		
SMD0805-050C-15V	5	5000		

NOTE:

BNstar Co.,Ltd. makes no representations or warranties with respect to the accuracy or completeness of the contents of this publication and reserves the right to make changes to specifications and product descriptions at any time without notice. The products described in this document are not designed, intended, authorized or warranted for use as components in systems intended for surgical implant into the body, or in other applications intended to support or sustain life, or where malfunction of

BNstar's product may result in direct physical harm, injury, or death to a person or severe property or environmental damage. BNstar Co.,Ltd., reserves the right to discontinue or make changes to its products at any time without notice.

Website: http://www.bnstar.net

For additional information, please contact your local Sales Representative. ©Copyright 2006, BNstar Co.,Ltd.

CAUTION:

Operation beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame. The devices are intended for protection against occasional over-current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated. Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.

Contact information

BNSTAR NEW MATERIALS CO., LTD. 130Meilong Road Shanghai, P.R.China Tel:86-021-64251576 Fax: 86-021-64250020 EMAIL: info@bnstar.net

Rev. letter		Date	
Design	Check	Audit	Approve

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Resettable Fuses - PPTC category:

Click to view products by BNstar manufacturer:

Other Similar products are found below :

 RF0077-000
 RF0627-000
 RF3301-000
 RF3382-000
 RF3394-000
 RF3399-000
 SMD125-2
 RF1973-000
 RF2531-000
 RF2873-000
 RF3060

 000
 RF3311-000
 TR600-150Q-B-0.5-0.130
 RXE090
 5E4795/04-1502
 TRF250-080T-B-1.0-0.125
 SMD100-2
 NIS5431MT1TXG
 SMD250

 2
 RS30-090
 RS30-600
 RS30-800
 RS30-900
 RS60RB-160
 RS60SB-250
 SB250-145
 K30U400
 0ZCH0110AF2E
 BK60-110-DI-E0.6

 BK250-120-SZ-E0.6
 BK60-010-DI-E0.5
 BK250-040-DY-E0.6
 RF2631-000
 NIS4461MT3TXG
 NIS5420MT2TXG
 NIS5420MT3TXG

 NIS6420MT1TWG
 RF5032-000
 RF5051-000
 RF5062-000
 RF5055-000
 RF5052-000
 2920L075/72MR
 BSMD0603-012-224V

 BSMD0402L-005
 BSMD0603-010-9V
 BSMD1812-020-60V
 BSMD2920-400-30V
 BSMD0603-010-12V