

SMD2018-200

Performance Specification

Model	V _{max}	I _{max}	I _{hold}	I _{trip}	Pd	Maximum Time To Trip		Resistance	
Model			@25°C	@25°C	Тур.	Current	Time	Ri _{min}	R1 _{max}
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)
SMD2018-200	10	100	2.00	4.00	1.1	8.0	2.40	0.030	0.100
Ihold = Hold Current. N	laximum currer	nt device will no	t trip in 25°C st	till air.					
trip = Trip Current. Mi	nimum current	at which the de	vice will always	s trip in 25°C sti	l air.				
/max = Maximum oper	ating voltage de	evice can withst	and without da	mage at rated c	urrent (Imax).				
max = Maximum fault	current device	can withstand w	vithout damage	e at rated voltag	e (Vmax).				
Pd = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.									
Rimin/max = Minimum/	Maximum devid	ce resistance pr	ior to tripping a	at 25°C.					
R1 _{max} = Maximum devi	ce resistance is	measured one	hour post refle	W.					
CAUTION : Operation b	evond the speci	ified ratings ma	v result in dam	age and possibl	e arcing and f	lame.			

Environmental Specifications

Test	Conditions	Resistance change
Passive aging	+85°C, 1000 hrs.	±5% typical
Humidity aging	+85°C, 85% R.H. , 168 hours	±5% typical
Thermal shock	+85°C to -40°C, 20 times	±33% typical
Resistance to solvent	MIL-STD-202, Method 215	No change
Vibration	MIL-STD-202, Method 201	No change
Ambient operating conditions : - 40 °C to +85 °C		
Maximum surface temperature of the device in the tripped s	state is 125 °C	

AGENCY APPROVALS :

Regulation/Standard:



UL pending

2002/95/EC

EN14582

Ihold Versus Temperature

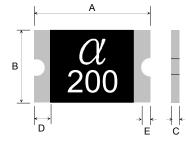
Model	Maximum ambient operating temperature (T_{mao}) vs. hold current (I_{hold})								
WOUEI	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
SMD2018-200	2.95	2.65	2.35	2.00	1.74	1.59	1.44	1.29	1.06

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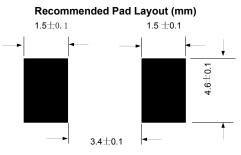
Construction And Dimension (Unit:mm)

		,					
Model	Α		В		С		D
Model	Min.	Max.	Min.	Max.	Min.	Max.	Min.
SMD2018-200	4.72	5.44	4.22	4.93	0.40	0.80	0.30

Dimensions & Marking







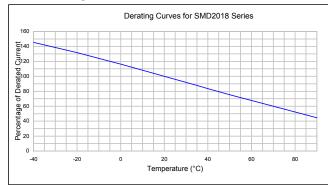
Termination Pad Characteristics

Terminal pad materials : Terminal pad solderability : Tin-plated Nickel-Copper Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

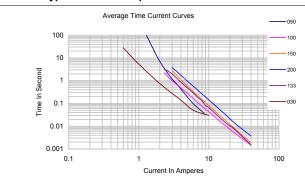
Rework

Use standard industry practices, the removal device must be replaced with a fresh one.

Thermal Derating Curve



Typical Time-To-Trip At 25°C



\Lambda WARNING:

· Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.

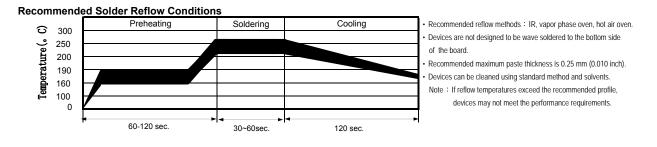
PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated. Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.

Use PPTC with a large inductance in circuit will generate a circuit voltage (L di/dt) above the rated voltage of the PPTC.

 \cdot Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.

Contamination of the PPTC material with certain silicon based oils or some aggressive solvents can adversely impact the performance of the devices. PPTC SMD can be cleaned by standard methods.
Requests that customers comply with our recommended solder pad layouts and recommended reflow profile. Improper board layouts or reflow profile could negatively impact solderability performance of our devices.

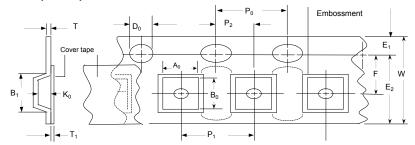
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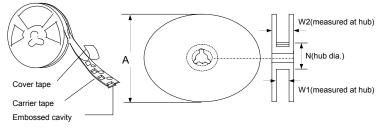
Tape And Reel Specifications (mm)

Governing Specifications EIA 481-2 W 12.0 ± 0.20 P_0 4.0 ± 0.10 P₁ P₂ A₀ B₀ 8.0 ± 0.10 2.0 ± 0.05 4.40 ± 0.10 5.50 ± 0.10 B₁max. 8.2 D_0 1.5 + 0.1, -0.0 F 5.5 ± 0.05 E₁ 1.75 ± 0.10 E₂min. 10.25 Tmax. 0.6 T₁max. 0.1 K₀ 1.36 ± 0.1 Leader min. 390 Trailer min. 160 **Reel Dimensions** 178 A max. 50 N min. W_1 12.4 + 2.0, -0.0 W₂max 18.4

EIA Tape Component Dimensions



EIA Reel Dimensions



Storage And Handling

- Storage conditions : 40°C max, 70% R.H.
- · Devices may not meet specified performance
- if storage conditions are exceeded.

Order Information	Packaging				
SMD2018	200	Tape & Reel Quantity			
Product name	Hold				
Size 5045mm/2018 inch	Current	2,500 pcs/reel			
SMD : surface mount device	2.00A				