

SMD200L

Performance Specification

Madel	V_{max}	I _{max}	hold	I _{trip} @25°C	P_d	Maximum Time To Trip		Resistance		Agency Approval	
Model			@25°C		Тур.	Current	Time	Ri _{min}	R1 _{max}	UL	TUV
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)	OL.	101
SMD200L	16	100	2.00	4.00	1.5	8.0	4.5	0.020	0.120		

Ihold = Hold Current. Maximum current device will not trip in 25°C still air.

Itrip = Trip Current. Minimum current at which the device will always trip in 25°C still air.

Vmax = Maximum operating voltage device can withstand without damage at rated current (Imax).

Imax = Maximum fault current device can withstand without damage at rated voltage (Vmax).

Pd = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

Rimin/max = Minimum/Maximum device resistance prior to tripping at 25°C.

R1max = Maximum device resistance is measured one hour post reflow.

CAUTION: Operation beyond the specified ratings may result in damage and possible arcing and flame.

Environmental Specifications

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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 state is 125 °C					

Agency Approvals : UL pending

Regulation/Standard: Pb RoHS 2002/95/EC

1 EN14582

I_{hold} Versus Temperature

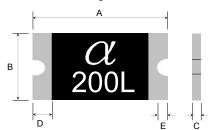
ihold versus remperat	uie									
Model	Maximum ambient operating temperature (T _{mao}) vs. hold current (I _{hold})									
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C	
CMD2001	2.02	2.60	2.24	2.00	1 66	1 50	1 22	1 16	0.00	

SMD200L

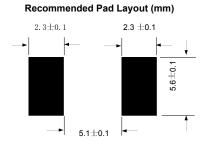
Construction And Dimension (Unit:mm)

Model		4		3	С		D	
Wodel	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
SMD200L	6.73	7.98	4.80	5.44	0.30	0.90	0.30	

Dimensions & Marking



 α = Trademark 200 = Hold current



Termination Pad Characteristics

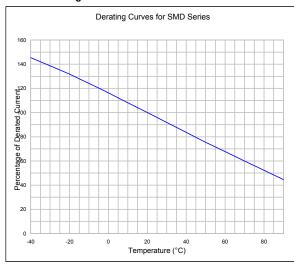
Terminal pad materials : Tin-plated Nickel-Copper

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

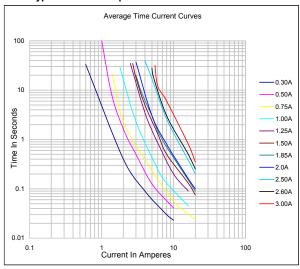
Rework

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

Thermal Derating Curve



Typical Time-To-Trip At 25°C



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.

- PPTC are intered to protection against occasional over current or over temperature radii continuous and should not be used when repeated had continuous or proteinged the 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.

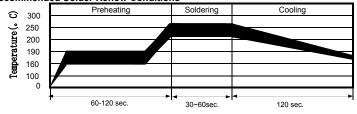
 Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.

 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

SMD200L

Recommended Solder Reflow Conditions



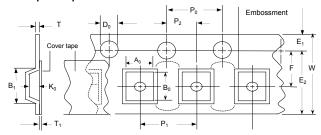
- Recommended reflow methods : IR, vapor phase oven, hot air oven.
- Devices are not designed to be wave soldered to the bottom side of the board.
- \bullet Recommended maximum paste thickness is 0.25 mm (0.010 inch).
- Devices can be cleaned using standard method and solvents.

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

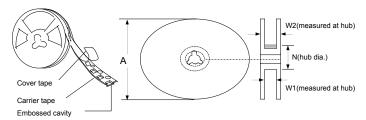
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-2
W	16.0 ± 0.3
P ₀	4.0 ± 0.10
	8.0 ± 0.10
P ₂	2.0 ± 0.05
A_0	5.70 ± 0.10
	8.00 ± 0.10
B₁max.	12.1
D_0	1.5 + 0.1, -0
F	7.5 ± 0.05
D ₀ F E ₁	1.75 ± 0.10
E ₂ min.	14.25
Tmax.	0.6
T₁max.	0.1
K ₀	0.80 ± 0.1
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	178
N min.	60
W ₁	16.4 + 2.0, -0.0
W ₂ max.	22.4

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**

SMD	200L	rape & Reel Qualitity
Product name	Hold	
Size 7555 mm /2920 inch	Current	2,000 pcs/reel
SMD: surface mount device	2.00A	