

SMD150L

Model	V _{max}	I _{max}	hold	I _{trip}	Pd	Maximum Time To Trip		Resistance		Agency Approval	
woder			@25°C	@25°C	Тур.	Current	Time	Ri _{min}	R1 _{max}	UL	τυν
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)		
SMD150L	33	100	1.50	3.00	1.5	8.0	2.0	0.035	0.230		
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	n/Maximum de	evice resistan	ce prior to tri	oping at 25°C	-		-				
R1max = Maximum d	evice resistan	ice is measur	ed one hour p	post reflow.							
CAUTION : Operation I	peyond the sp	ecified rating	s may result i	in damage an	d possible ar	cing and flame	e.				

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 state is 125 °C							

Agency Approvals :

Regulation/Standard:



UL pending

2002/95/EC EN14582

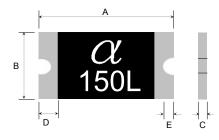
Ihold Versus Temperature

Model		Maximum ambient operating temperature (T_{mao}) vs. hold current (I_{hold})									
Woder	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C		
SMD150L	2.27	2.01	1.76	1.50	1.25	1.13	1.00	0.87	0.74		

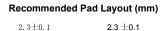
SMD150L

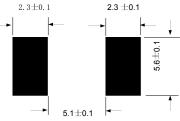
Construction And Dimension (Unit:mm)									
Model	Α		В		С		D		
Woder	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
SMD150L	6.73	7.98	4.80	5.44	0.40	0.90	0.30		

Dimensions & Marking



 α = Trademark 150 = Hold current





Termination Pad Characteristics Terminal pad materials :

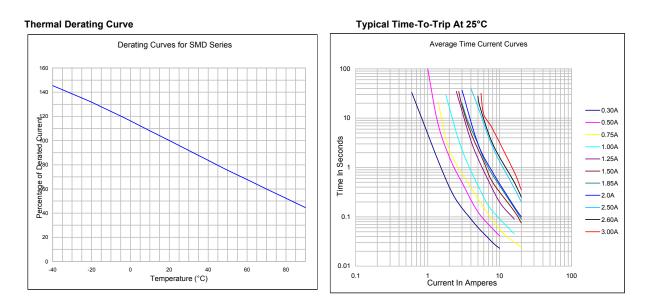
Terminal pad solderability :

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.

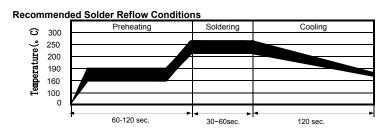


🕑 WARNING:

· 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.
 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 olis 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

第2页

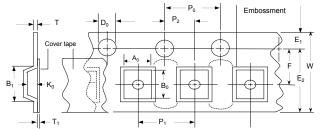


- Recommended reflow methods : IR, vapor phase oven, hot air oven. · Devices are not designed to be wave soldered to the bottom side
- of the board.
- Recommended maximum paste thickness is 0.25 mm (0.010 inch). Devices can be cleaned using standard method and solvents.
- Note: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

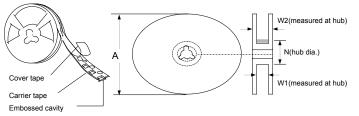
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-2
W	16.0 ± 0.3
P ₀	4.0 ± 0.10
P ₁	8.0 ± 0.10
P ₂	2.0 ± 0.05
A ₀	5.70 ± 0.10
B ₀	8.00 ± 0.10
B ₁ max.	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
T ₁ max.	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	150L	Tape & Reel Quantity				
Product name	Hold					
Size 7555 mm /2920 inch	Current	2,000 pcs/reel				
SMD : surface mount device	1.50A					