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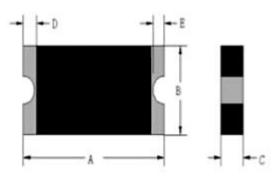
**Surface-Mount Device** 

SL1206400-12V

ROHS 🏷

## Feature Resettable over current and over temperature protection . Small size of 1206 • Fast time-to-trip Small footprint **ROHS** complaint Low resistance Application Computer Industrial controls Multimedia Battery Automotive Game machines Mobile phones Portable electronics Telephony and broadband Part Numbering SMD1206 · Hold Current Series

## **Product Dimensions in Millimeter**



Port Number	Α		В		С		D		E	
Part Number	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
SL1206400-12V		4.0		1.75		1.0	0.25		0.05	

# **Electrical Characteristics**

	I(A) 25℃		V <sub>max</sub>	I <sub>max</sub>	$\mathbf{Pd}_{\mathrm{typ}}$	T <sub>trip</sub>		R <sub>min</sub>	R <sub>1max</sub>
Part Number						<b>25</b> ℃		<b>25</b> ℃	
	Hold	Trip	(V)	(A)	(W)	Current(A)	Time(S)	<b>(</b> Ω)	<b>(</b> Ω)
SL1206400-12V	4.0	8.0	12.0	50	1.5	8.0	60	0.001	0.018



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### SL1206400-12V

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 $I_{H}$ =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.

Pd<sub>typ</sub>=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.

 $R_{max}$ = Maximum resistance of device in initial (un-soldered) state.

 $R_{1max} = \text{Maximum resistance of device at } 25\,^\circ \mathbb{C} \ \text{ measured one hour after reflow soldering of } 260\,^\circ \mathbb{C} \ \text{ for } 20 \text{ sec.}$ 

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.

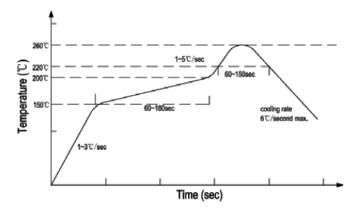
## **Environmental Specifications**

<b>-</b>				
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 <sub>1max</sub>		
Moisture Resistance	85% RH,85℃,1000hrs	≤ R <sub>1max</sub>		
Thermal Shock	MIL-STD-202 Method 107G +85°C /-40°C 20 times	≤ R <sub>1max</sub>		
Vibration	MIL-STD-883C, Method 2007.1, Condition A	No change		
Solvent Resistance	MIL-STD-202, Method 215	No change		
Moisture Level Sensitivity	Level 1, J-STD-020C	No change		

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

Dont Number	Maximum Ambient Operating Temperature ( $^\circ\!{ m C}$ )								
Part Number	-40	-20	0	25	40	50	60	70	
SL1206400-12V	5.4	4.7	4.3	4.0	3.7	3.5	3.0	2.7	

#### Solder Reflow Recommendation



Reflow -curve



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

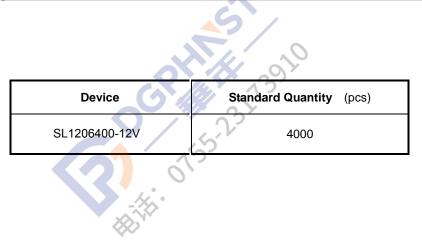
Devices can be cleaned using standard industry methods and solvents.

#### 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**



# 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**

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