

RL1812A340K-142A Product code: 10.21.54.3401

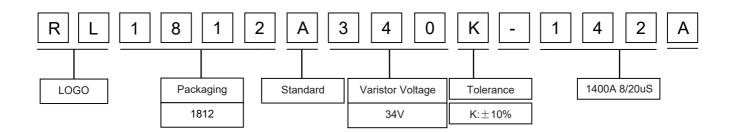
Features

- I EIA size:1812
- I Variable capacitance
- I Operating voltage:34Vdc
- I High surge suppress capability
- I Bidirectional and symmetrical V/I characteristics
- I Multilayer ceramic construction technology
- I RoHS & Halogen Free (HF) compliant
- I Operating temperature range: -55℃ ~ +125℃
- I Storage temperature range: 5℃ ~ +40℃



- I Used to Help Achieve Electromagnetic Compliance of End Products
- I Provides On-Board Transient Voltage Protection for ICs, CMOS and MOSFET
- I Suppression of Inductive Switching or Other Transient Events Such as EFT and Surge Voltage at the Circuit Board.
- I Protection of Components and Circuits Sensitive to ESD Transients Occurring on Power supplies, Control and Signal Lines.

Part Number Code



Electrical Characteristics

Type Number	Varistor Voltage	Max. Allowable Voltage		Ι_(μΑ)	Max. Energy (10/1000µs)	Max. Clamping Voltage (8/20µs)	Max. Withstanding Surge Current (8/20µs)
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)		(J)	Vc(V)	I(A)
RL1812A340K-142A	31.2-39	19	26	≤30	3.6	63	1400



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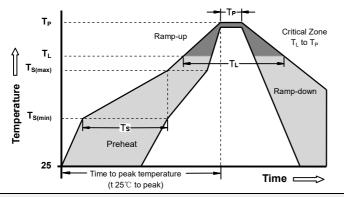
Environmental Performance

Item	Specifications	Test Condition
Bias Humidity	V _V / V _V ≤±10%	90%RH, 40 °C, Working Voltage, 1000 hrs
Thermal Shock	V _V / V _V ≤±10%	-40°C to 85°C,30min.cycle,5 cycles
Full Load Voltage	V _V / V _V ≤±10%	Working Voltage,85°C,1000 hrs

General Technical Data

Response Time		<1ns	
Solderability		245 ±5 °C, 3±1sec	
Solder leach resistance		260±5 °C,10±1sec	
	Storage Temperature	5~40°C	
Taping Package Storage Condition	Relative Humidity	To 65%	
	Storage Time	12 Months max	

Soldering Parameters - Reflow Soldering (Surface Mount Devices)



Precaution for soldering

Note that this product will be easily damaged by rapid heating, rapid cooling or local heating.

Do not give heat shock over 100°C in the **process** of soldering. We recommend to take preheating and gradual cooling

Soldering gun procedure

Note the follows, in case of using solder gun for replacement. 1)The tip temperature must be less than **280** for the period within 3 seconds by using soldering gun under 30W 2) The soldering gun tip shall not touch this product directly.

2) The soldering gun tip shall not touch this product directly.

Soldering volume

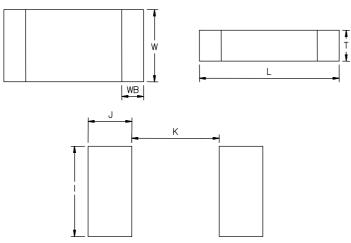
Note that excess of soldering volume will easily get crack the body of this product.

Reflow	Condition	Pb - Free assembly	
	-Temperature Min (T _{s(min)})	150°C	
Pre Heat	-Temperature Max (T _{s(max)})	200°C	
	- Time (min to max) (t _s)	60 -180 Seconds	
-	e ramp up rate(Liquids)to peak	3°C/second max	
T _{S(max)} to	o TL - Ramp-up Rate	3°C/second max	
Reflow	- Temperature (T∟) (Liquids)	217°C	
	- Time (min to m ax) (t _s)	60 -150 Seconds	
Peak Temperature (T _P)		260 +0/-5°C	
	thin 5°C of actual p eak ature (t _p)	20 - 40 Seconds	
Ramp-down Rate		6°C/second max	
Time 25°C to peak Temperature (T _P)		8 minutes Max	
Do not e	exceed	260°C	



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Dimensions



Recommended Soldering Pad Layout

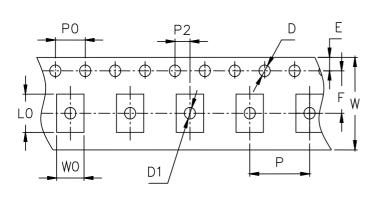
Symbol	Millimeters	Inches	
L	4.50±0.40	0.177±0.157	
w	3.20±0.30	0.126±0.012	
T _{max} .	3.40	0.134	
WB	0.60±0.25	0.024±0.008	
I	3.5~4.0	0.217	
J	2.0~3.0	0.252	
к	3.0~4.0	0.165	



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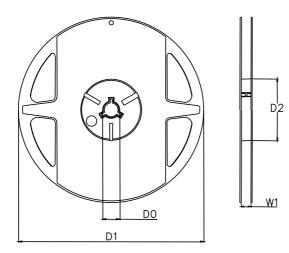
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Taping and Reel Specifications



Symbol	Millimeters	Inches
w	12.00±0.20	0.472±0.008
E	1.75±0.10	0.069±0.004
F	5.50±0.05	0.217±0.002
D	1.55±0.05	0.061±0.002
D1	Φ1.50±0.05	Ф0.059±0.002
Р	8.00±0.10	0.315±0.004
P0	4.00±0.05	0.157±0.002
P2	2.00±0.05	0.079±0.002
L0	5.45±0.10	0.215±0.004
wo	4.20±0.10	0.165±0.004

Packing Specifications



Symbol	Millimeters	Inches
D0	13.5±0.1	0.531±0.004
D1	178±2.0	7.008±0.079
D2	Φ60.0±0.5	Φ2.362±0.02
W1	13.08±0.2	0.515±0.008

Taping Specifications

There Shall be the portion having no product in both the head and the end of taping, and there shall be the cover tape in the heat of taping.

Quantity of products in the taping package

Model	SIZE EIA (EIAJ)	Quantity
RL1812A340K-142A	Standard Packing Quantity (PCS/reel)	1000pcs