

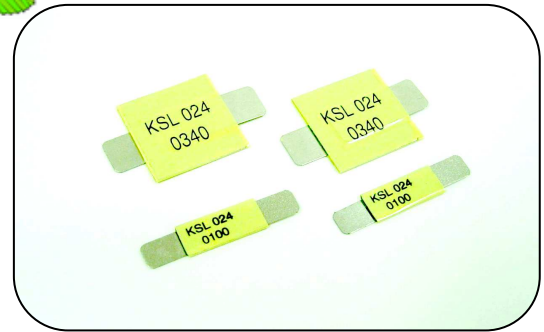
# Polymer PTC Resettable Fuse: KSL Series

## Strap Type KSL Series



### ■ Features

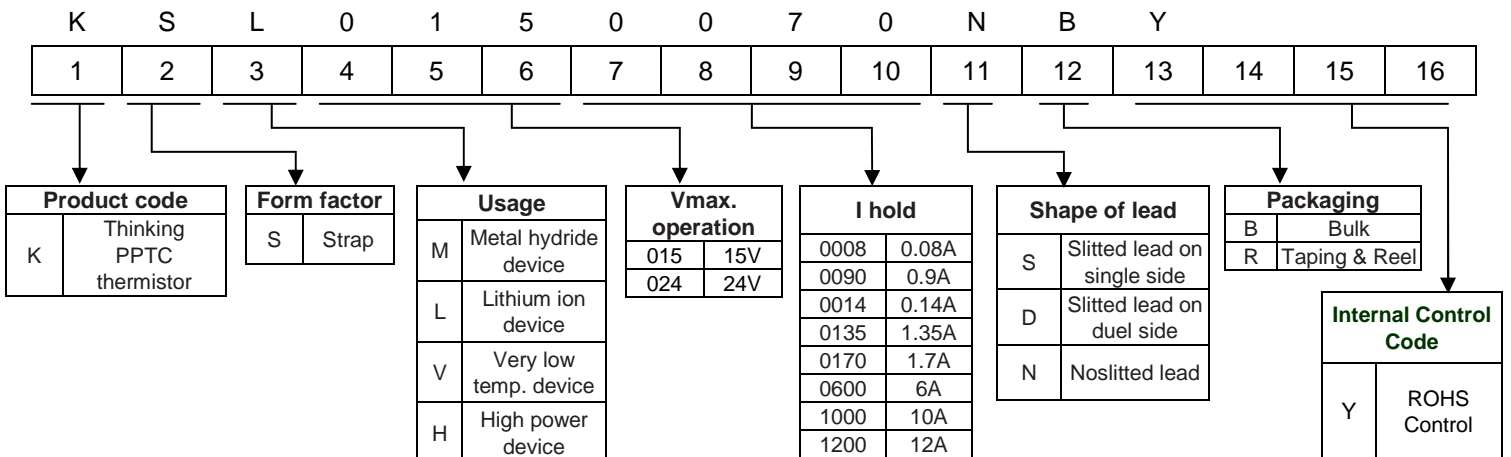
1. RoHS compliant
2. Broadest range of resettable devices available in the industry
3. Current ratings from 0.7 to 3.4A
4. Maximum voltage : 15V and 24V
5. Operating temperature range : -40 ~ +85°C
6. Agency Recognition :UL /cUL/TUV



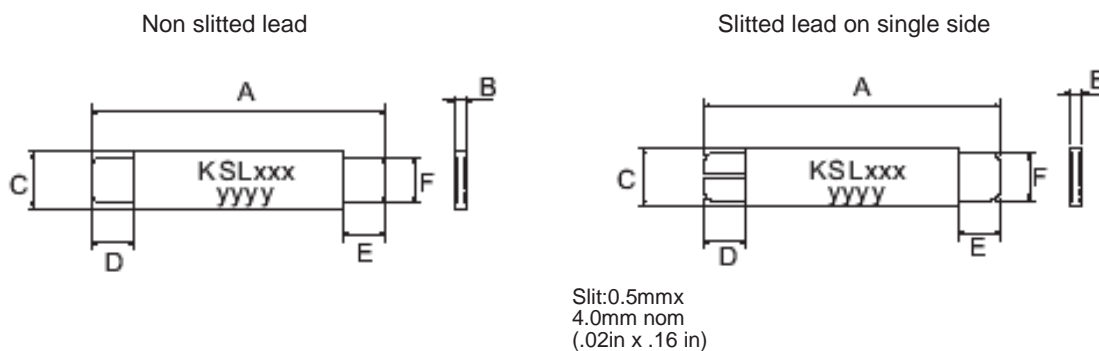
### ■ Recommended Applications

1. Rechargeable battery packs

### ■ Part No. Code



### ■ Dimensions



Marking: xxx=Vmax. operation, yyyy=I hold

# Polymer PTC Resettable Fuse: KSL Series



## Strap Type KSL Series

(Unit: mm)

Part no.	A		B		C		D		E		F	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
KSL0150070	19.9	22.1	0.7	1.2	4.9	5.2	5.5	7.5	5.5	7.5	3.9	4.1
KSL0150070S	19.9	22.1	0.7	1.2	4.9	5.2	5.5	7.5	5.5	7.5	3.9	4.1
KSL0240100	20.9	23.1	0.6	1.0	4.9	5.2	4.1	5.5	4.1	5.5	3.9	4.1
KSL0240100S	20.9	23.1	0.6	1.0	4.9	5.2	4.1	5.5	4.1	5.5	3.9	4.1
KSL0240180	24.0	26.0	0.6	1.0	4.9	5.2	4.1	5.5	4.1	5.5	3.9	4.1
KSL0240180S	24.0	26.0	0.6	1.0	4.9	5.2	4.1	5.5	4.1	5.5	3.9	4.1
KSL0240190	21.3	23.4	0.5	1.1	10.2	11.0	5.0	7.6	5.0	7.6	4.8	5.4
KSL0240260	24.0	26.0	0.6	1.0	10.8	11.9	5.0	7.0	5.0	7.0	5.9	6.1
KSL0240300	28.4	31.8	0.5	1.1	13.0	13.5	6.3	8.9	6.3	8.9	6.0	6.6
KSL0240310	24.0	26.0	0.6	1.0	14.8	15.9	5.0	7.0	5.0	7.0	5.9	6.1
KSL0240340	24.0	26.0	0.6	1.0	14.8	15.9	4.0	5.0	4.0	5.0	5.9	6.1

### ■ Characteristics(23°C)

Part no.	Vmax.	I <sub>max</sub> .	I <sub>hold</sub> @ 23°C	I <sub>trip</sub> @ 23°C	P <sub>d</sub> (Max.)	Maximum time to trip		Resistance (Ω)			Safety approvals	
	(V <sub>dc</sub> )	(A)	(A)	(A)	(W)	(A)	(Sec.)	Initial (R <sub>i</sub> )		Post trip (R <sub>1</sub> )	UL/cUL	TUV
								Min.	Max.	Max.		
KSL0150070	15	100	0.7	1.5	1.1	3.5	5.0	0.100	0.200	0.340	√	√
KSL0150070S	15	100	0.7	1.5	1.1	3.5	5.0	0.100	0.200	0.340	√	√
KSL0240100	24	100	1.0	2.5	1.5	5.0	7.0	0.070	0.130	0.260	√	√
KSL0240100S	24	100	1.0	2.5	1.5	5.0	7.0	0.070	0.130	0.260	√	√
KSL0240180	24	100	1.8	3.8	2.0	9.0	2.9	0.040	0.068	0.120	√	√
KSL0240180S	24	100	1.8	3.8	2.0	9.0	2.9	0.040	0.068	0.120	√	√
KSL0240190	24	100	1.9	4.2	1.9	10.0	3.0	0.030	0.057	0.100	√	√
KSL0240260	24	100	2.6	5.2	2.3	13.0	5.0	0.025	0.042	0.076	√	√
KSL0240300	24	100	3.0	6.3	2.0	15.0	4.0	0.015	0.031	0.055	√	√
KSL0240310	24	100	3.1	6.0	2.5	15.5	5.0	0.018	0.030	0.055	√	√
KSL0240340	24	100	3.4	6.8	2.7	17.0	5.0	0.016	0.027	0.050	√	√

Note 1: S= Slitted lead on single side

Note2 : UL&cUL File No. E138827

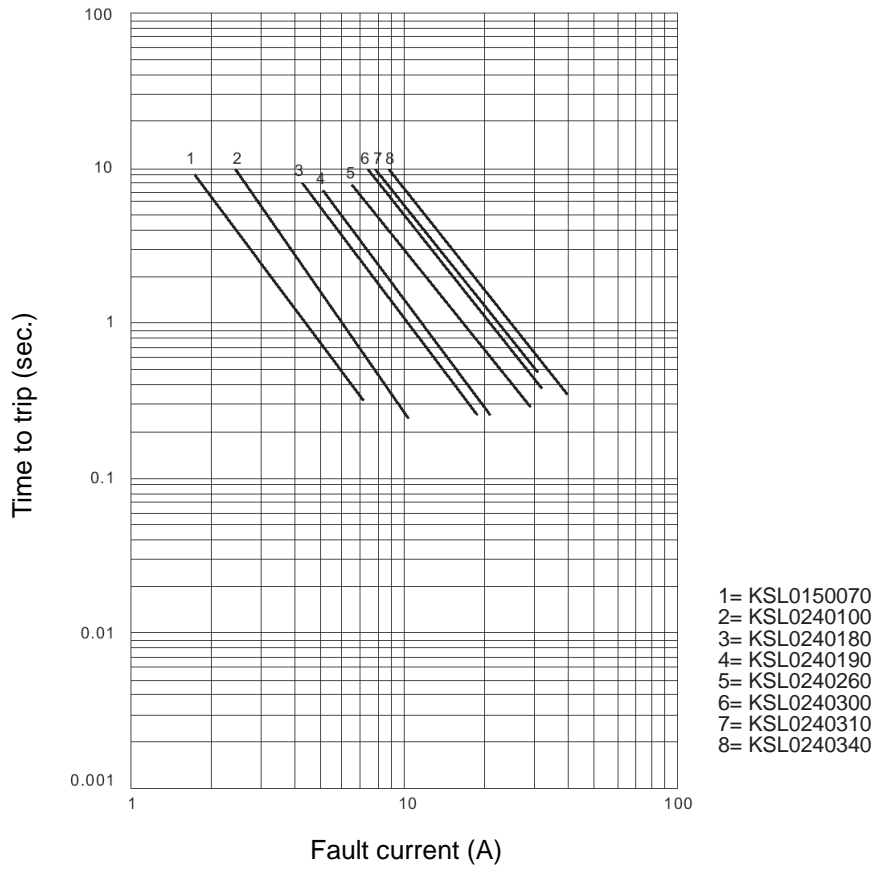
TUV File No. R50066599

# Polymer PTC Resettable Fuse: KSL Series

## Strap Type KSL Series

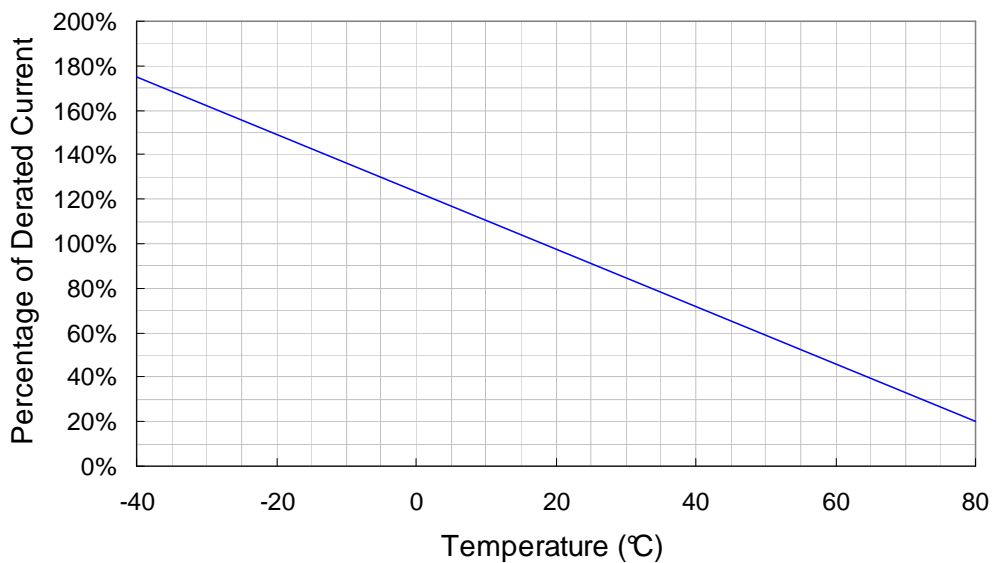


### ■ Typical time to trip curve at 23°C



### ■ Thermal derating curve

Derating Curves for KSL Series



# Polymer PTC Resettable Fuse: KSL Series

## Strap Type KSL Series



### ■ Reliability test

Item	Test condition/methods	Criteria
Passive aging	70°C, 1000hrs	±10% typical resistance change
Humidity storage	40°C, 95%RH, 1344hrs Mil-Std 202, method 103 condition D	±5% typical resistance change
Cycle life	50 cycles at a 120% maximum current (Imax) and maximum voltage (Vmax). UL 1434	Normal Appearance
Trip endurance	Vmax, Imax, 48Hrs	Normal Appearance
Steady-state operating life	Vmax, Iss, 1000hrs Mil-Std 750, method 1026	Normal Appearance

### ■ Packaging

#### Bulk packing

Series	Quantity PCS/Bag
KSL	1000

#### Ammo packing

Series	Quantity PCS/Box
KSL	10000

#### Carton packing

Series	Quantity PCS/Box
KSL	60000

### ■ Storage condition of products

( I ) Storage Conditions :

- 1.Storage Temperature : -10°C ~+40°C
- 2.Relative humidity : ≤ 75%RH
- 3.Thermistors must be kept away from sunlight and stored in a non-corrosive atmosphere.

( II ) Period of Storage : 1 year