Product Specification

Number: L-KLS5-0603-06T-XXXL

Name: SMD Fuse

Customer: _____

Date: 2025-04-11

Customer Signature:

NINGBO KLS ELECTRONIC CO; LTD

Tel : 0086-574-86828566

Fax : 0086-574-86824882

ADD : NO. 8-1, RONGXIA RD. XIAPU SHANQIAN INDUSTRIAL ZONE BEILUN NINGBO ZHEJIANG.

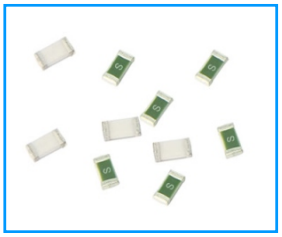
WWW.KLSELE.COM

Compi	Check	Review	Approva
Jenny	Jack.C		

0.25A~8A 63Vdc/32Vdc

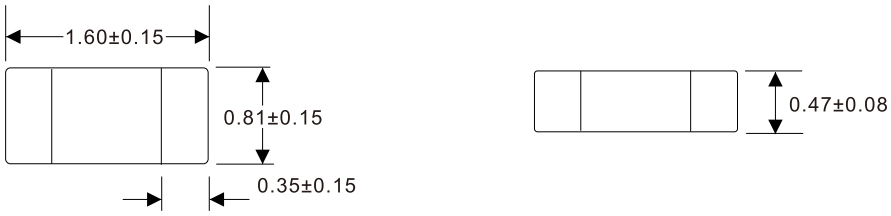
Description

- 1.6x0.81x0.65mm physical size
- Solder-free design
- Designed to UL248-1
- RoHS compliant,Halogen free and Lead-free



Dimensions

(Unit: mm)



Specifications

Part No.	Rated Voltage (Vdc)	Rated Current (A)	Breaking Capacity (A)	Typical Cold Resistance (mOhms)	Typical Voltage Drop (mV)	Typical Pre-Arcing I²t (A²Sec)	Alpha Mark
06T-0250L	63 32	0.25	50A	3100	1435	0.0012	D
06T-0375L		0.375		1600	1250	0.0028	E
06T-0500L		0.5		1000	750	0.005	F
06T-0750L		0.75		440	550	0.015	G
06T-010L		1		240	310	0.035	B
06T-015L		1.5		125	250	0.08	H
06T-020L		2		68	170	0.16	K
06T-025L		2.5		52	200	0.29	L
06T-030L		3		34	155	0.32	O
06T-035L	32	3.5		22	130	0.54	R
06T-040L		4		20	100	0.95	S
06T-050L		5		13	95	1.8	T
06T-060L		6		8.5	80	2.9	V
06T-070L		7		6.5	80	3.5	X
06T-080L		8		5.3	75	4.8	Z

* DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 degrees
* Typical Pre-arcing I²t are measured at 10In Current
* For fuse below 1A, the color of glass coating is Blue; for 1A and above, it's Green.

Electrical Characteristcs

Rated Current	1.0In	2.0In	2.5In	3.5In
250mA~750mA	4.0 hour min	-	-	5.0 sec max
1~5A	4.0 hour min	1.0 sec-60.0sec	5.0 sec max	-
6~7A	4.0 hour min	1.0 sec-60.0sec	-	-
8A	4.0 hour min	-	5.0 sec max	-

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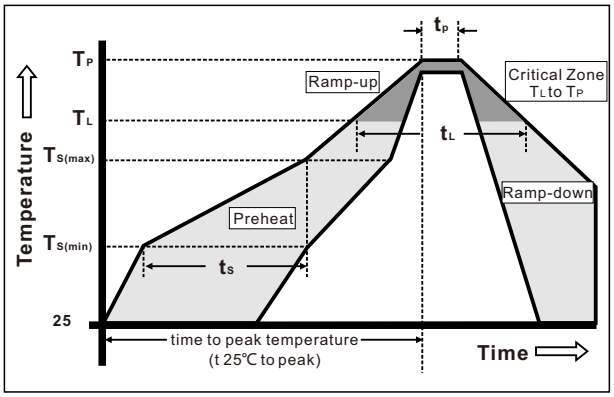
Installation Recommendations

1 Wave Soldering Parameters

Reflow Conditon		Pb-free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150℃
	- Temperature Max ($T_{s(max)}$)	200℃
	- Time (Min to Max) (t_s)	60 。120 seconds
Average Ramp-up Rate (Liquidus Temp (TL) to peak)		3℃/second max.
TS(max) to TL - Ramp-up Rate		5℃/second max.
Reflow	- Temperature (TL) (Liquidus) - Temperature (tL)	217℃ 60 。150 seconds
Peak Temperature (T_P)		260+0/-5℃
Time within 5℃ of actual peak Temperature (t_p)		30 seconds
Ramp-down Rate Time 25℃ to peak Temperature (T_P) Do not exceed		6°C/second max 8 minutes max. 260°C



Solder Pot Temperature: 260°C max

Solder Dwell Time: 10 Seconds max

2 Hand-Solder Parameters

Solder Iron Temperature: 280±5°C

Heating Time: 5 Seconds min

Generally,hand-soldering is not recommended

Product Characteristics

Materials	**Body:** Ceramic **Terminatons:** Silver over-plated with tin **Element:** Alloy(Ag,Cu,Zn) **Cover Coat:** Glass
Operatng Temperature	-55°C to 125°C Consult temperature rerating curve chart.
Thermal Shock	300 cycles -55°C to 125°C
Humidity	MIL-STD-202F, Method 103B,Condition D
Vibraton	Per MIL-STD-202F, Method 201A
Insulaton Resistance (Afer Opening)	Greater than 10,000 ohms
Resistance to Soldering Heat	MIL-STD-202G,Method 210F, Condition D

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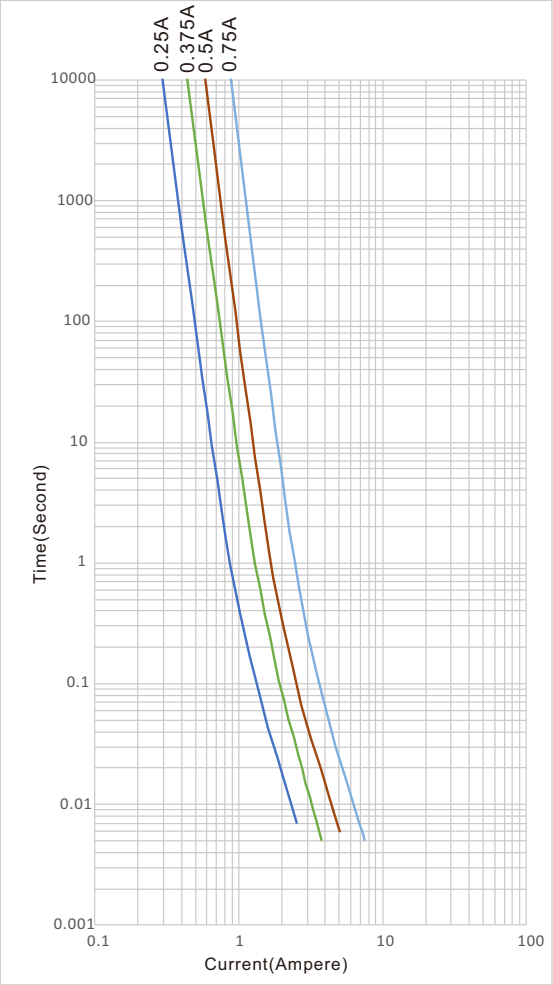
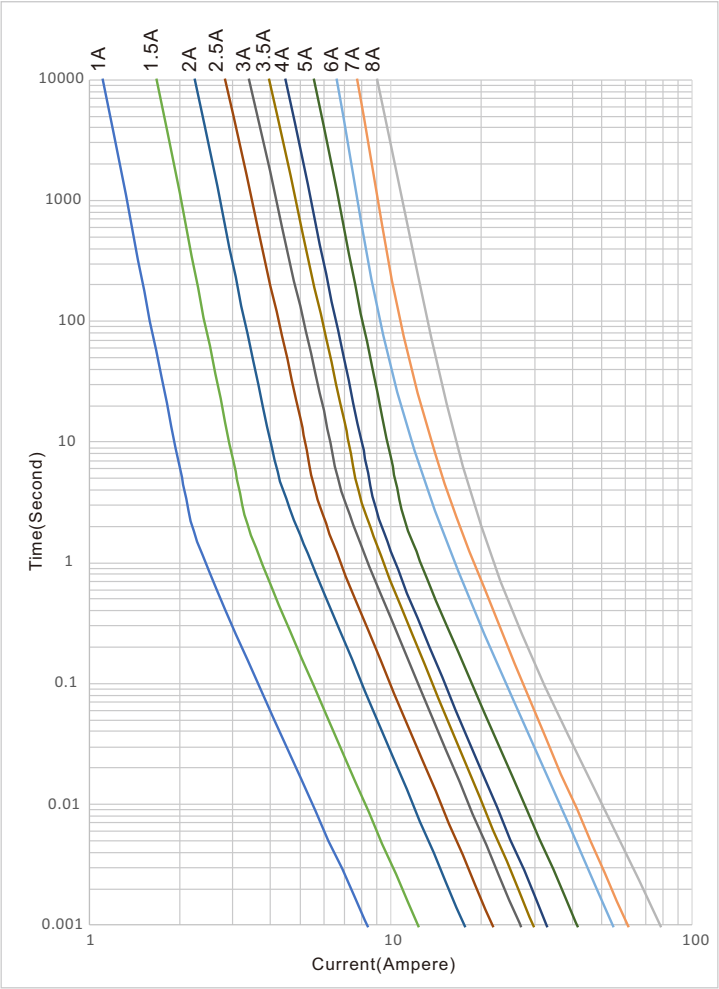
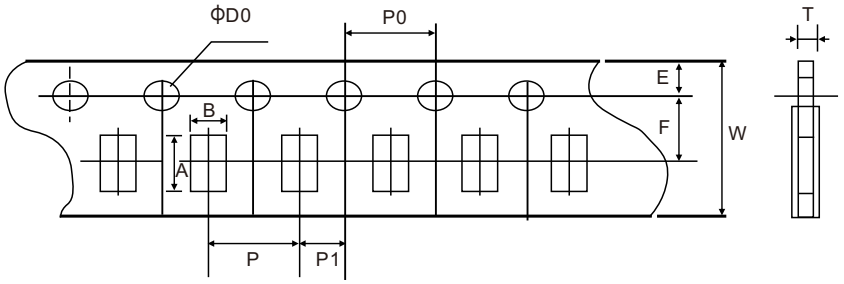
Time Current Curve





Packaging

5,000 pieces of fuses in plastic or paper taper 5000pcs)



Type	A	B	W	F	E
Spec	1.85±0.10	1.10±0.10	8.00±0.10	3.50±0.05	1.75±0.10
Type	P	P0	P1	D0	T
Spec	4.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.65±0.10

(Unit: mm)