FEATURES

- RoHS compliant and lead–free
- Axial lead battery strap type devices
- Slim, low profile design
- Compact design saves board space
- Low resistance
- Fast trip time

APPLICATIONS

- NiCd/NiMH rechargeable battery pack, Li-ion/Polymer
- Li-ion battery
- Camcorders
- Portable Computers

ENVIRONMENTAL SPECIFICATIONS

Test	Conditions	Resistance change
Passive aging	+85°C,1000 hrs	±10% typica
Humidity aging	+85°C，85%R.H.,168 hours	±10% typical
Thermal shock	-55°C to +125°C，10times	±12% 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		

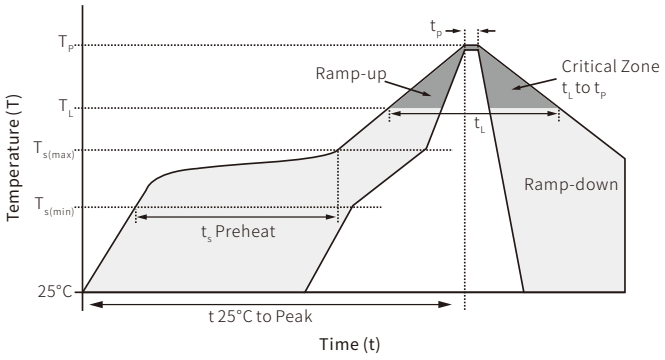
PERFORMANCE SPECIFICATION

Type Number	I_{hold}	I_{trip}	V_{max}	Max. Time to Trip		I_{max}	$P_{d\,typ}$	Ri_{min}	$R1_{max}$
	A	A	V_{DC}	Current A	Tmax S	A	W	Ω	Ω
LP1410	14.1	26.2	16	20.5	5.0	100	6.0	3	5

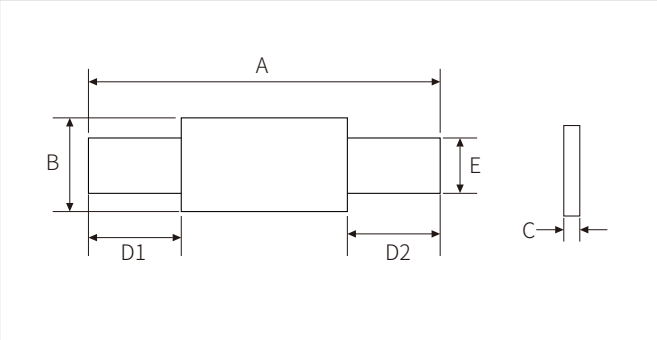
V_{max}= Maximum operating voltage device can withstand without damage at rated current (Imax).
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V max).
I_{hold}= Hold Current. Maximum current device will not trip in 25°C still air.
I_{trip}= Trip Current. Minimum current at which the device will always trip in 25°C still air.
P_d= Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.
$Ri_{min/max}$=Minimum/Maximum device resistance prior to tripping at 25°C.
$R1_{max}$=Maximum device resistance is measured one hour post reflow.

SOLDERING PARAMETERS

Reflow Condition		Lead–free assembly
Pre Heat	Temperature Max ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak		3°C/second max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Time (min to max) (t_L)	60 – 150 seconds
Peak Temperature (T_p)		260°C
Time within 5°C of actual peak Temperature (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 exceed		260°C



PACKAGE MECHANICAL DATA



Ref.	Millimeters (mm)	Inches
A	58-60	2.283-2.362
B	13.4-14	0.528-0.551
C	0.50-1.0	0.020-0.039
D1	4.2-5.8	0.165-0.228
D2	4.2-5.8	0.165-0.228
E	5.9-6.1	0.232-0.240

ORDERING INFORMATION

Part Number	Base Quantity	Description
LP1410	500pcs	Bag

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