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PRODUCT DATASHEET

Surface Mount Fuse

J2822HC SURFACE MOUNT FUSE



Descriptions

J2822HC series is designed for the purpose of external short circuit protection of the lithium ion battery of medium sizes, such as a power tool and an electric assistant bicycle. Though it was a surface mount type, it was small and realized high current rating, because a fuse element and a terminal adopt the structure of one.

Features

- Small size with high current rating for short circuit protection
- Ceramic body with Ceramic base filler
- Suitable for automatic mounting
- Surface mount type and small size of 7.3x5.8x4.2(mm)
- RoHS and Lead Free material

Applications

- Storage system power
- Cooling fan system for PC server / PC
- Voltage regulator module
- Base station power supply
- Voltage regulator module for PC server / PC
- High-end server/Blade server
- Battery management system

Agency Approvals

Agency	File Number
	E544180

Electrical Characteristics

- Pre-Arcing Time / Current Characteristics:

% of Ampere Rating(In)	Opening Time
100%*In	4 hours Min
200%*In	120 sec Max

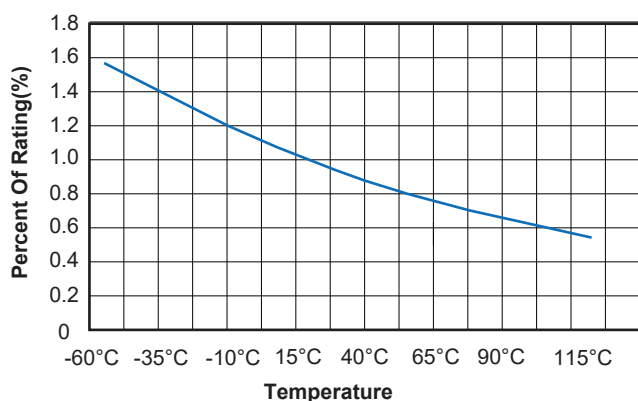
Performance Specification

Part Number	Ampere Rating(A)	Voltage Rating(Vdc)	Breaking Capacity	Typical Cold DCR(mΩ)	Melting I ² t @10In(A ² sec)
J2822HC40	40	32/48/75/85 100/110/125	1KA	1.02	384
J2822HC50	50			0.90	625
J2822HC60	60			0.82	1548
J2822HC80	80			0.60	3712
J2822HC100	100			0.43	6800
J2822HC125	125			0.36	9300

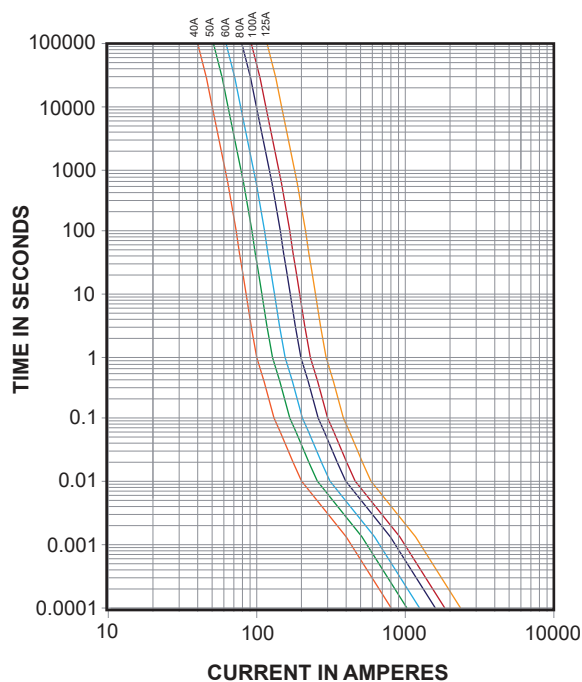
Environmental Characteristic

- Company operating temperature of the environment more than $25 \pm 5^\circ\text{C}$, in the selection of fuse specifications, it needs to consider the impact of the operating environment of the temperature fuse. Photo: temperature derating curve.

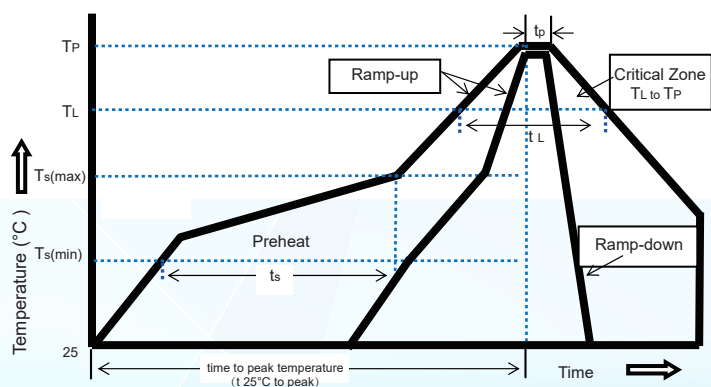
Temperature Derating Curve



Average Time-Current Curve



Recommended Soldering Parameters



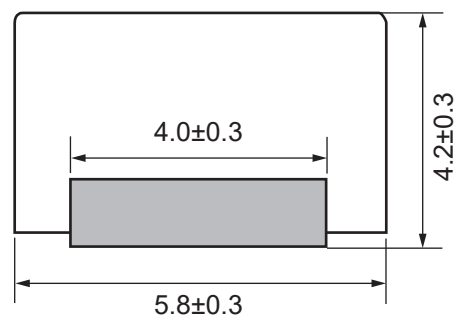
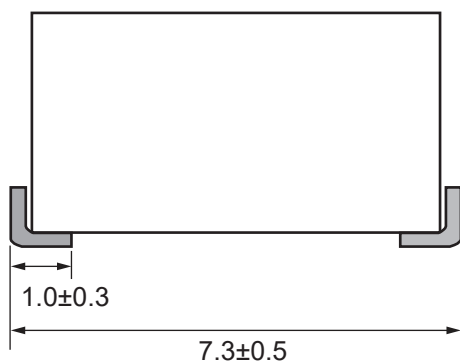
Infrared Reflow

Temperature	260°C
Time	20 seconds max.
Recommend Reflow profile	

Reflow Condition		Pb-Free assembly
Preheat	Average Ramp-up Rate (Tsmax to Tp)	3°C/second max.
	Temperature Min. (Tsmin)	150°C
	Temperature Max. (Tsmax)	200°C
Reflow	Time (Tsmin to Tsmax)	60~120 seconds
	Temperature (TL)	260°C
	Time Max (tL)	60 seconds
Peak Temperature (Tp)		260°C max
Temperature (TL)		217°C
Melting in time (tL)		60~150 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (tp)		8 minutes max
Operating Temperature		-55°C to +125°C

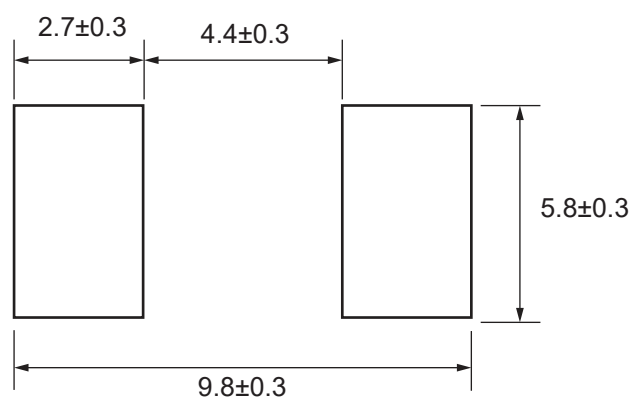
Dimensions and Structure

- Outline Drawing and dimensions (unit : mm)



- Material Details:

Component	Material
Body	Ceramic
Fuse element	Tin Plated Copper



Recommended pad layout

Part Numbering

J 2822HC XXX

Rate Current

2822HC Series

J=JDT Fuse