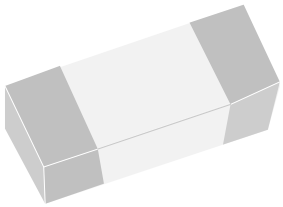
Power Battery Packs Protection 2410BC-P Series

Descriptions

Chip Fuse devices are set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

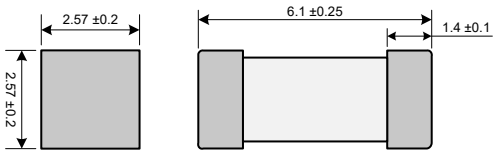
2410BC-P SMD fuse s for the small size and good electrical performance, reliability and quality.



Top View (2410BC-P)

Electrical Characteristics		
Rated Current	1.0In	2.0In
20A ~ 40A	4 hour minimum	60 sec maximum

Product Dimensions

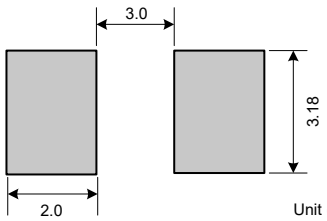


Unit (mm)

Features

- Design for power battery packs overload and short circuit protection
- Surface mount deign to save space
- Ceramic Suqare body with Silver plated end cap
- Designed to UL248-1
- Fully compatible with lead-free solder and high temperature profile associated with lead-free assembly

Recommended land pattern



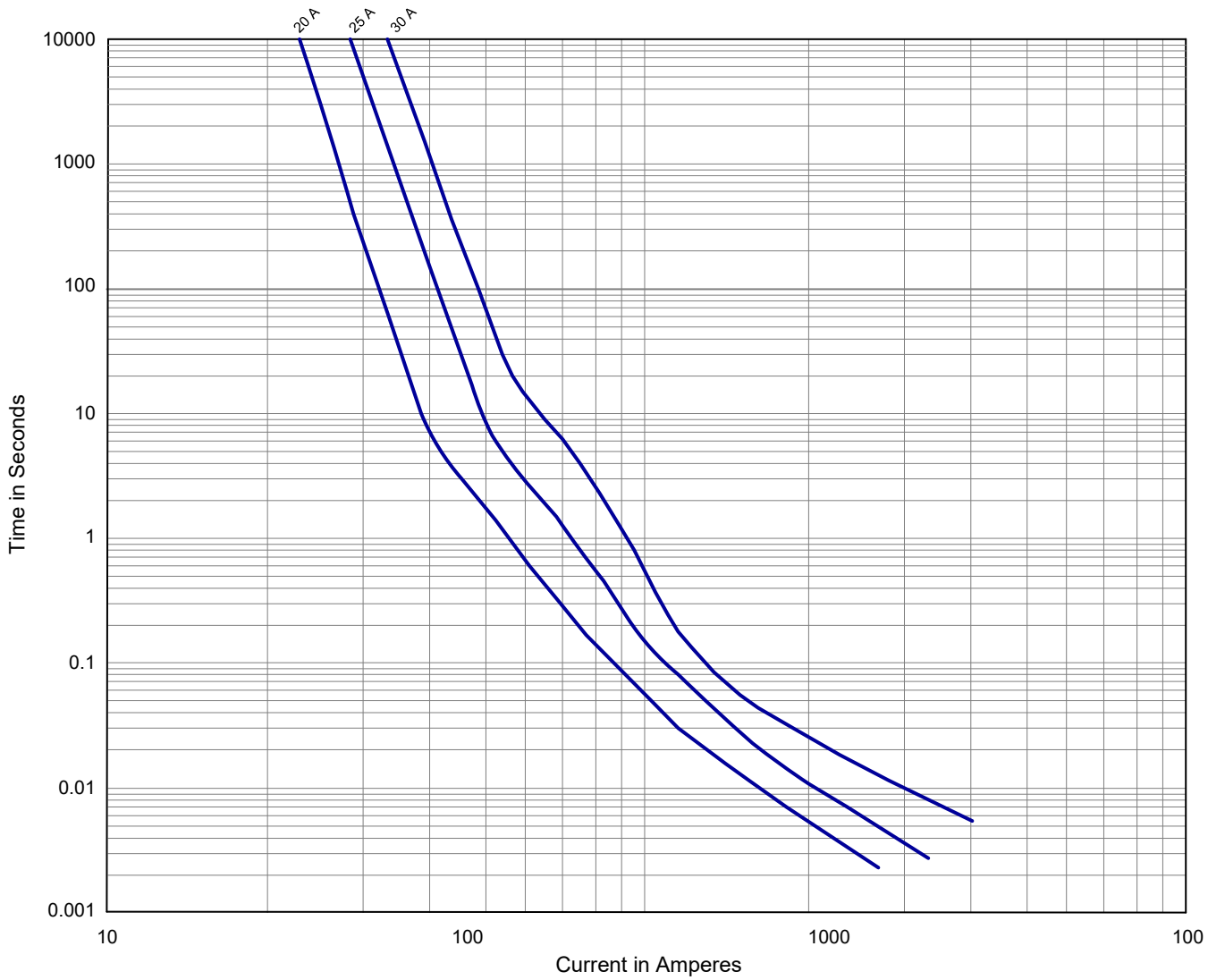
Unit (mm)

Electrical information (Tamb=25°C)

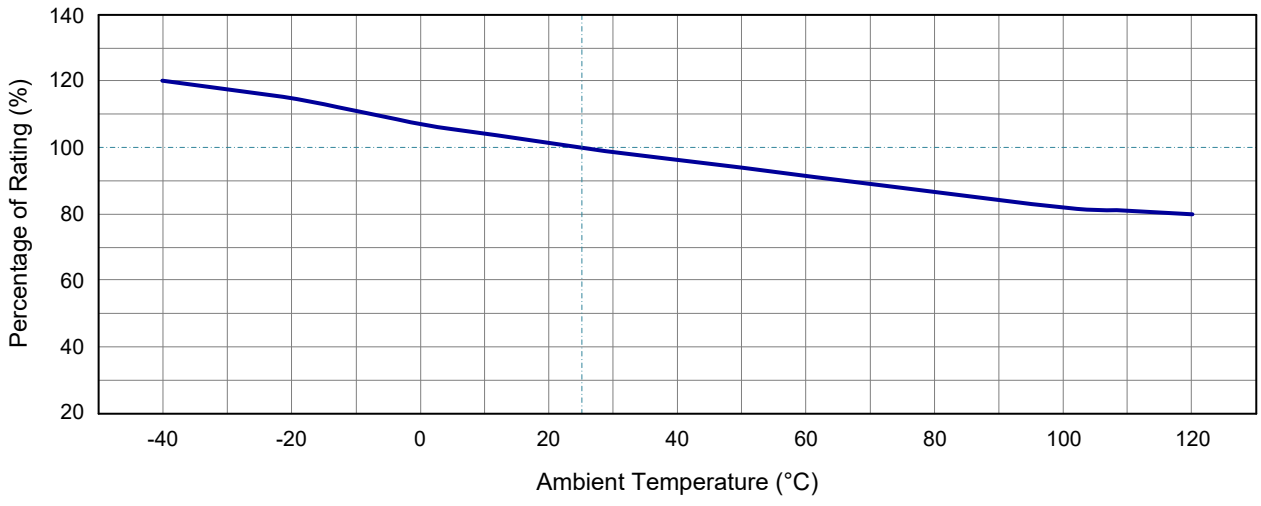
Part number	Rated Voltage	Rated Current	Breaking Capacity	Typical Cold. Resistance	Typical Voltage Drop	Typical Pre-arcing I^2t *
	DC (V)	(A)		(mΩ)	(mV)	(A^2Sec)
2410BC72-2000P	72	20	500A@50V 300A@72V	2.3	60	210
2410BC72-2500P	72	25	500A@50V 300A@72V	1.7	65	420
2410BC72-3000P	72	30	500A@50V 300A@72V	1.2	70	900
2410BC72-4000P	32	40	400A@32V	1.1	85	1500

** Typical Pre-arching I^2t are measured at 10In Current*

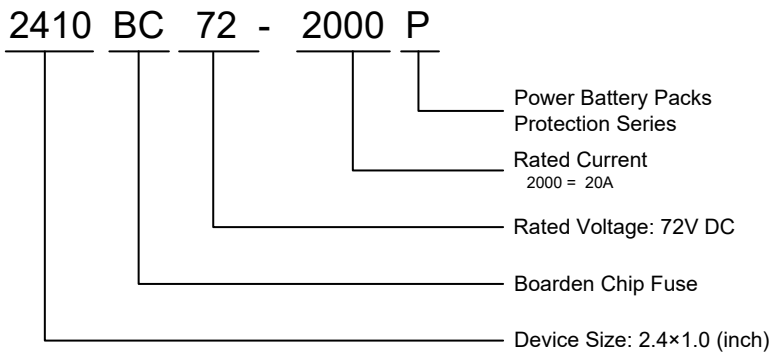
Time-Current Curves



Temperature Derating Curve



Part Numbering System

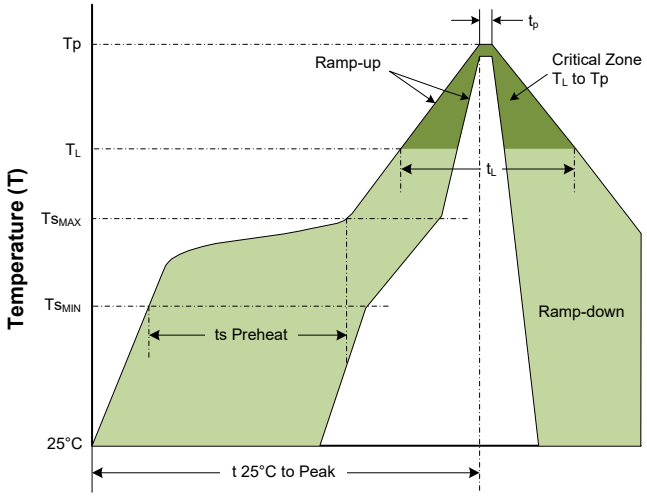


Order Information

Device	Quantity	Reel Size
2410BC-P Series	1000 pcs	7 Inch (178.0mm)

Soldering Parameters

Profile Feature	**Lead-Free Assembly**
Average Ramp-up Rate (Ts_{MAX} to Tp) Average Ramp-down Rate (Tp to T_L)	3°C/second max. 6°C/second max.
Preheat • Temperature Min (Ts_{MIN}) • Temperature Max (Ts_{MAX}) • Time (ts Preheat)	 150°C 200°C 60-180 seconds
Time maintained above: • Temperature (T_L) • Time (t_L)	 217°C 60-150 seconds
Peak/Classification Temperature • Temperature (Tp)	 $260^{+0/-5}$°C
Time within 5°C of actual Peak Time (t_p)	 20-40 seconds
Time 25°C to peak Temperature	8 minutes max
Do not exceed	280 °C



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