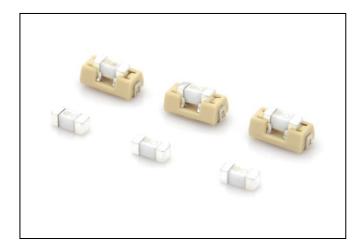
6125 High Inrush SMD Fuses





Description

24Q Series are the fuses 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 SMD fuses.

Features

Rapid interruption of excessive current Compatible with reflow and wave solder One time positive disconnect

Lead Free and Halogen free material

Agency Approvals.

Safety	Agency	Ampere Range
Agency	File Number	Volt@I.R.ABILITY
c W us	E485357	25A~40A 500A@72V DC 50A~60A 300A@72V DC

Electrical Characteristics for Series

Rating Current	100% of Ampere Rating	300% of Ampere Rating
25A~60A	4 Hour, Min.	5Sec., Max.

Electrical Characteristic Specifications by Item

Part No. Rated Voltage	ae Rated Current Bre	Breaking Capacity Mel	Melting Integral	Alpha Mark	Nominal Cold	Approvals	
	Naleu Vollage	i vollage Raled Cullent	(A)	10In min(A ² S)		Resistance(m Ω)	cURus
24Q2250	72VDC	25A		418	25	2.1	•
24Q2300		30A	500A@72V DC	594	30	1.1	•
24Q2400		40A		1120	40	0.71	•
24Q2500		50A	300A@72V DC	1155	50	0.65	•
24Q2600		60A	300A@120 DC	1375	60	0.55	•

* DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

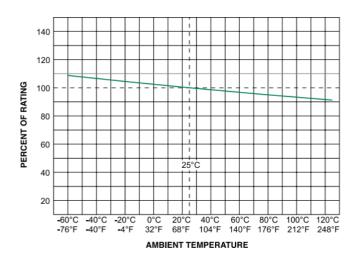
* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 degrees

Type 24Q

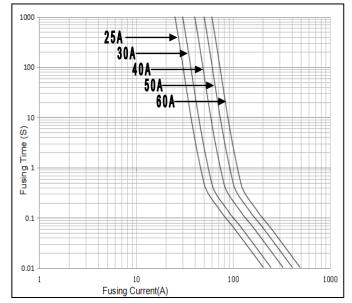
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Temperature Re-rating Curve

- *Normal ambient temperature: 23 \pm 3°C
- * Operating temperature: -55 ~+125℃, with proper correction factor applied

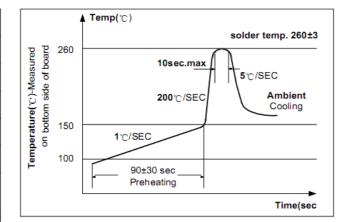


Average Time Current Curves



Soldering Parameters

Reflow Condition	Pb-Free assembly	
	-Temperature $Min(T_{s(min)})$	150 ℃
Pre Heat	-Temperature $Max(T_{s(max)})$	200 ℃
	-Time (Min to Max)(t _s)	60-180 secs
Average ramp up rate	5℃/second max	
Ts(max)to T _L Ramp-u	5℃/second max	
Reflow	-Temperature(TL)(liquidus)	217℃
	-Temperature(t _L)	60-150 seconds
Time within 5℃ of act	20-40 seconds	
Ramp-down Rate	5℃/second max	
Time 25 $^\circ\!\!\mathbb{C}$ to pesk Temperature (T_p)		8 minutes Max.
Do not exceed		260 ℃





Type 24Q

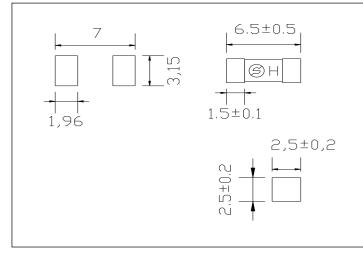
6125 High Inrush SMD Fuses

Product Characteristics

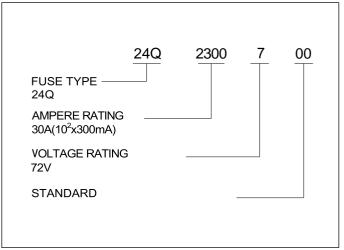
Materials	Body: Ceramic Terminations: Gold-plated Caps	
Product Marking	Brand, Amperage Rating	
Operating Temperature	-55°C to 125°C	
Moisture Sensitivity Level	Level 1, J-STD-020	
Solderability	MIL-STD-202, Method 208	
Insulation Resistance (after Opening)	MIL-STD-202, Method 302, Test Condition A (10,000 ohms minimum)	

Thermal Shock	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C to 125°C, 15 minutes @ each extreme		
Mechanical Shock	MIL-STD-202, Method 213, Test I: Deenergized. 100G's pk amplitude, sawtooth wave 6ms duration, 3 cycles XYZ+xyz = 18 shocks		
Vibration	MIL-STD-202, Method 201: 0.03" amplitude, 10-55 Hz in 1 min. 2hrs each XYZ=6hrs		
Moisture Resistance	MIL-STD-202, Method 106, 10 cycles		
Salt Spray	MIL-STD-202, Method 101, Test Condition B (48hrs)		
Resistance to Soldering Heat	MIL-STD-202, Method 210, Test condition B (10 sec at 260°C)		

Mechanical Dimensions (Unit:mm)



Ordering Information



Packaging

Packaging Option	Packaging Specification	Quantity
24Q	tape-and-reel	1000pcs

