

Description

Square Surface Mount Fuses

series slow-blow square Surface Mount Fuses are ceramic tube/end cap constructions, RoHS compliant, Halogen Free and lead (Pb) exempts of the requirements of RoHS Directive(2002/95/EC).

Features

- Time-Lag (Slow-Blow)
- Small size 6.1mm x 2.7mm
- Operating temperature: -55℃~125℃
- One-time protective effect
- RoHS Compliant
- Follow UL248-14

Electrical Characteristics

% of Ampere Rating	Opening Time
100%	4 hours Min.
200%	120 sec Max.

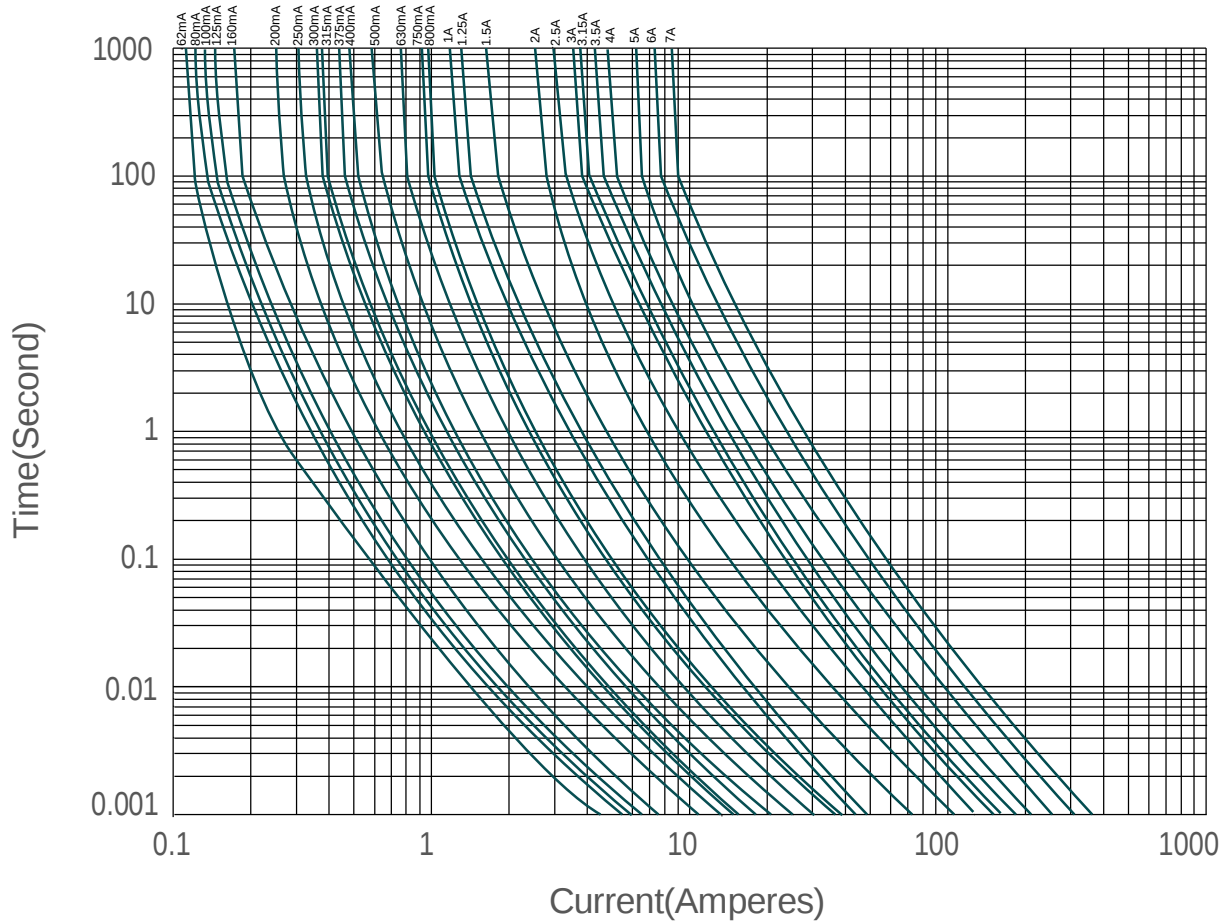
Electrical Specifications by Item

Ampere Rating	Voltage Rating	Breaking Capacity	Cold Resistance (Ohms)	Melting thermal energy $I^2T(A^2S)$
50mA	250Vac	50A@250Vac	4.5453	0.002
62mA	250Vac		4.0562	0.003
80mA	250Vac		3.3937	0.006
100mA	250Vac		3.1868	0.009
125mA	250Vac		3.0065	0.014
160mA	250Vac		2.0613	0.024
200mA	250Vac		1.4222	0.038
250mA	250Vac		1.2163	0.059
315mA	250Vac		0.7753	0.094

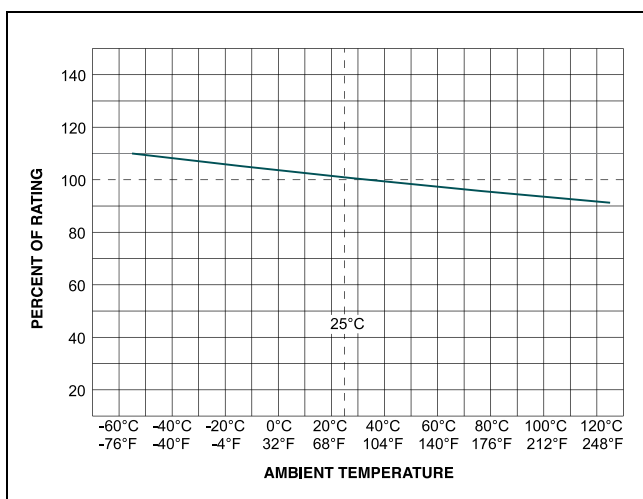
375mA	250Vac	50A@250Vac	0.4667	0.133
400mA	250Vac		0.4409	0.152
500mA	250Vac		0.2835	0.237
630mA	250Vac		0.2379	0.377
750mA	250Vac		0.1789	0.534
800mA	250Vac		0.1705	0.608
1A	250Vac		0.1153	0.950
1.25A	250Vac		0.0963	1.484
1.5A	250Vac		0.0705	2.137
2A	250Vac		0.0346	3.800
2.5A	250Vac		0.026	5.938
3A	250Vac		0.0204	8.550
3.15A	250Vac		0.0204	9.426
3.5A	250Vac		0.0196	11.637
4A	250Vac		0.0159	15.212
5A	250Vac		0.0119	23.751
6A	250Vac		0.0089	34.284
6.3A	250Vac		0.0088	37.705
7A	250Vac		0.0076	46.552

- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C;
- Typical Pre-arching I^2t are calculated at 10*In Current or 8ms;

Time Current Curves

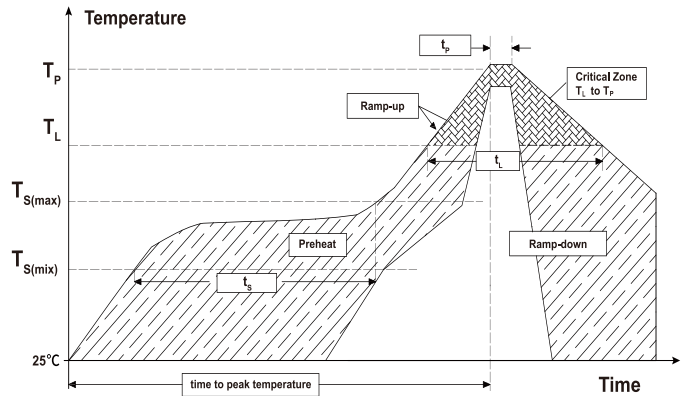


Environmental Characteristic



Soldering Parameters

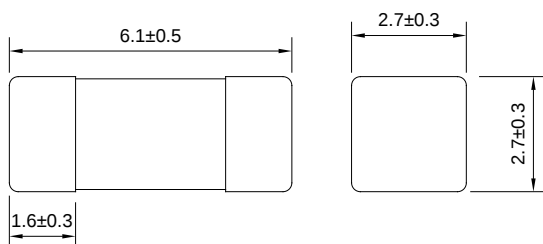
Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate ($T_{S(max)}$ to T_P)	5°C /second max.
Temperature Min ($T_{S(min)}$)	150°C
Temperature Max ($T_{S(max)}$)	200°C
Time (Min to Max) (t_s)	60-120 seconds
Temperature (T_L)	220°C
Time Max (t_L)	60 seconds
Peak Temperature (T_P)	260°C max
Ramp-down Rate	5°C/second max
Time 25°C to peak Temperature (T_P)	8 minutes max



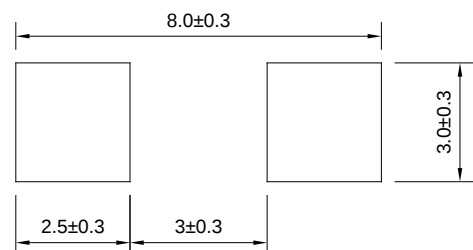
Material Details

Part Name	Material
End caps	Gold Plated Brass
Body	Non-Transparent Square Ceramic Tube
Fuse element	Cu-Ag Alloy wire

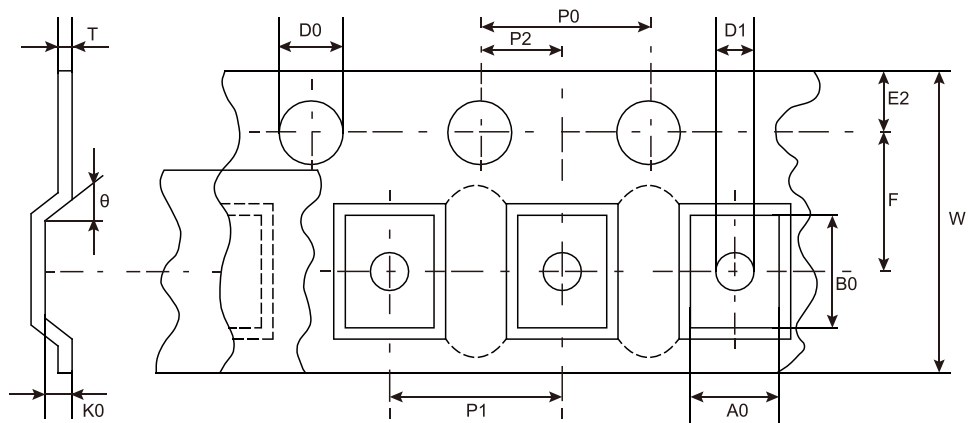
Dimensions and Structure (Unit:mm)



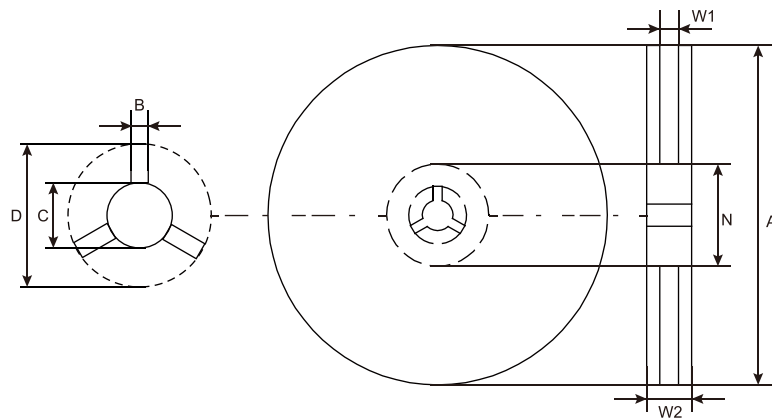
Recommend pad layout (Unit:mm)



Tape and Reel Specification



Item	A0	B0	D0	D1	E2	F	K0
Spec.(mm)	2.70±0.10	6.40±0.10	1.50±0.10	1.50±0.25	1.75±0.10	5.50±0.10	2.70±0.10
Item	P0	P1	P2	T	W	θ	
Spec.(mm)	4.00±0.10	4.00±0.10	2.00±0.10	0.25±0.05	12.00±0.15	6°Max.	



Item	A	B	C	D	N	W1	W2
Spec.(mm)	178±0.10	60±0.50	13±0.20	21±0.20	2.2±0.20	12.5±0.20	14.5±0.20