

# INDIVIDUAL SPECIFICATION SHEET

**Product Name: Square Surface Mount Fuses**

**Part Number: TA2VTXXX Series**

**Revision: A/1**



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Rev.	Effective Date	Changed Contents
A/0	2020-03-04	New Release
A/1	2022-09-27	Edition Upgrades

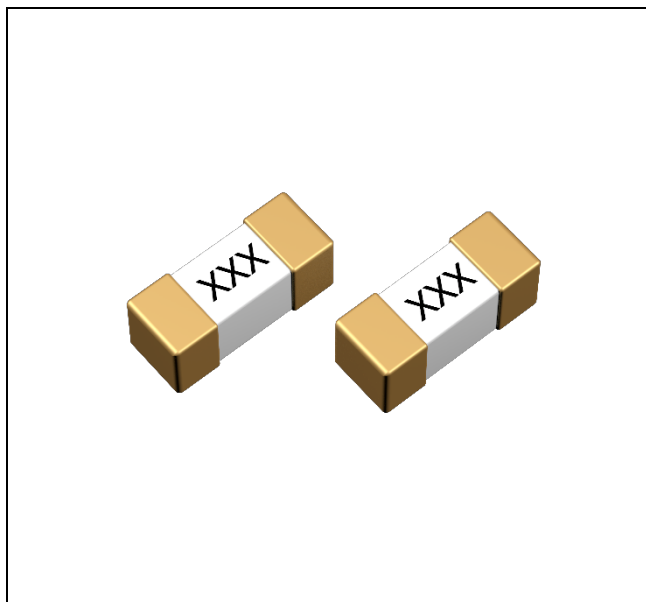
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APPROVED BY

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## Description

### Square Surface Mount Fuses

TA2VTXXX 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), with U.S. (UL) safety agency approvals.

## Agency Approvals

Agency	Ampere Range	Agency File Number
	50mA ~ 7A	E467707(JDYX2)
	50mA ~ 7A	E467707(JDYX8)


## Features

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

## Electrical Characteristics

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

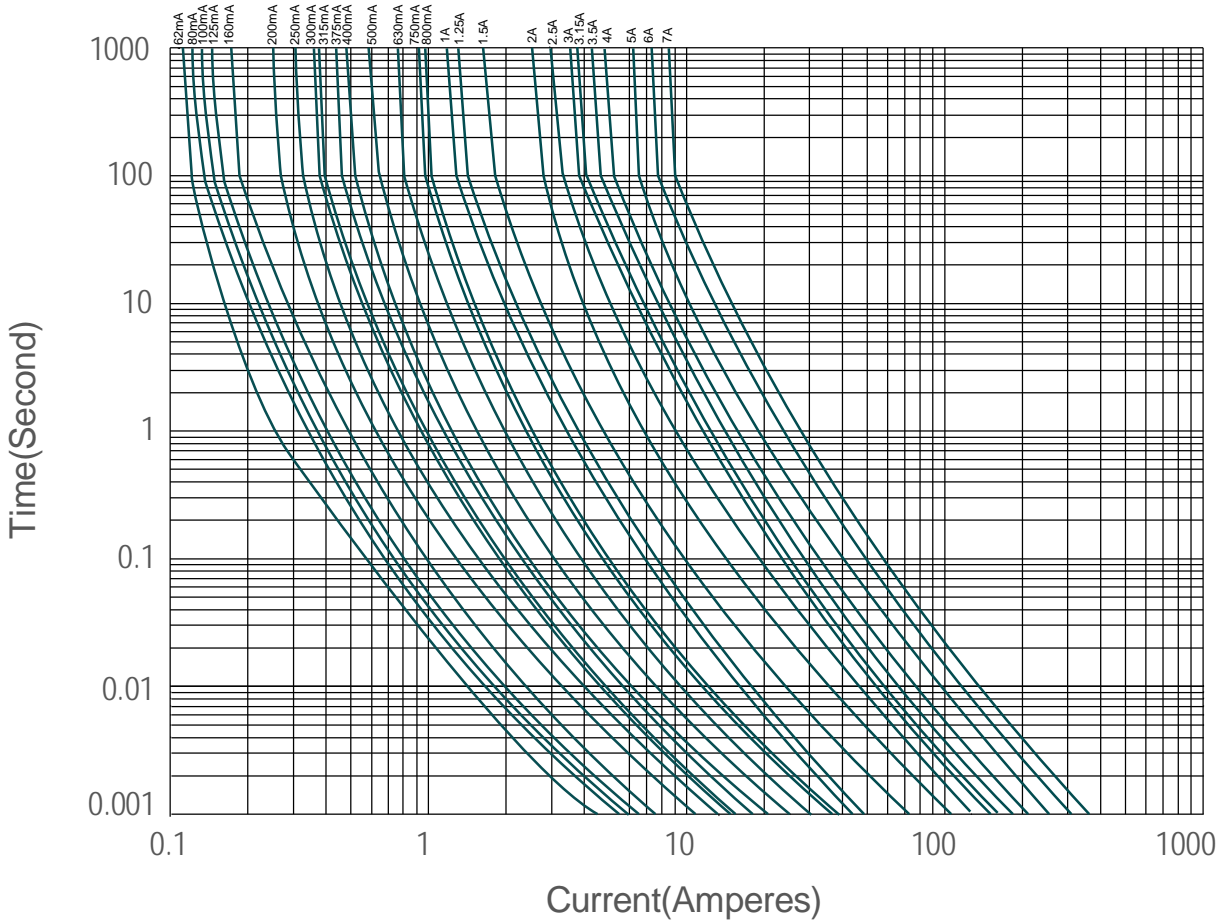
## Electrical Specifications by Item

Product model	Ampere Rating	Voltage Rating	Breaking Capacity	Cold Resistance (Ohms)	Melting thermal energy I <sup>2</sup> T(A <sup>2</sup> S)	Safety Approvals
						
TA2VT0.05	50mA	250Vac	50A@250Vac	4.5453	0.002	•
TA2VT0.062	62mA	250Vac		4.0562	0.003	•
TA2VT0.08	80mA	250Vac		3.3937	0.006	•
TA2VT0.1	100mA	250Vac		3.1868	0.009	•
TA2VT0.125	125mA	250Vac		3.0065	0.014	•
TA2VT0.16	160mA	250Vac		2.0613	0.024	•
TA2VT0.2	200mA	250Vac		1.4222	0.038	•
TA2VT0.25	250mA	250Vac		1.2163	0.059	•
TA2VT0.315	315mA	250Vac		0.7753	0.094	•

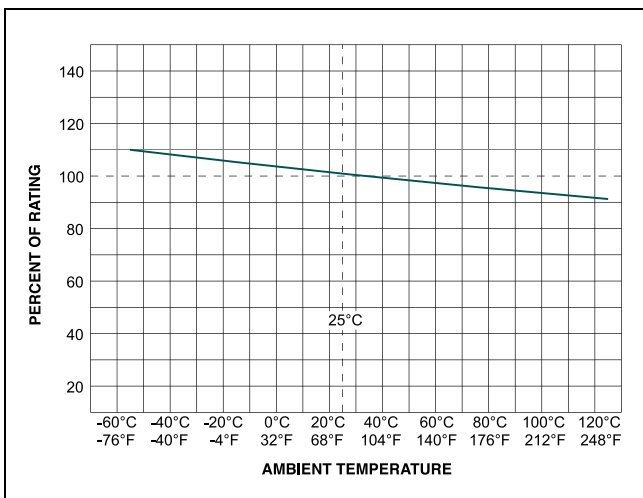
TA2VT0.375	375mA	250Vac	50A@250Vac	0.4667	0.133	•
TA2VT0.4	400mA	250Vac		0.4409	0.152	•
TA2VT0.5	500mA	250Vac		0.2835	0.237	•
TA2VT0.63	630mA	250Vac		0.2379	0.377	•
TA2VT0.75	750mA	250Vac		0.1789	0.534	•
TA2VT0.8	800mA	250Vac		0.1705	0.608	•
TA2VT1	1A	250Vac		0.1153	0.950	•
TA2VT1.25	1.25A	250Vac		0.0963	1.484	•
TA2VT1.5	1.5A	250Vac		0.0705	2.137	•
TA2VT2	2A	250Vac		0.0346	3.800	•
TA2VT2.5	2.5A	250Vac		0.026	5.938	•
TA2VT3	3A	250Vac		0.0204	8.550	•
TA2VT3.15	3.15A	250Vac		0.0204	9.426	•
TA2VT3.5	3.5A	250Vac		0.0196	11.637	•
TA2VT4	4A	250Vac		0.0159	15.212	•
TA2VT5	5A	250Vac		0.0119	23.751	•
TA2VT6	6A	250Vac		0.0089	34.284	•
TA2VT6.3	6.3A	250Vac		0.0088	37.705	•
TA2VT7	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<sup>2</sup>t are calculated at 10\*In Current or 8ms;

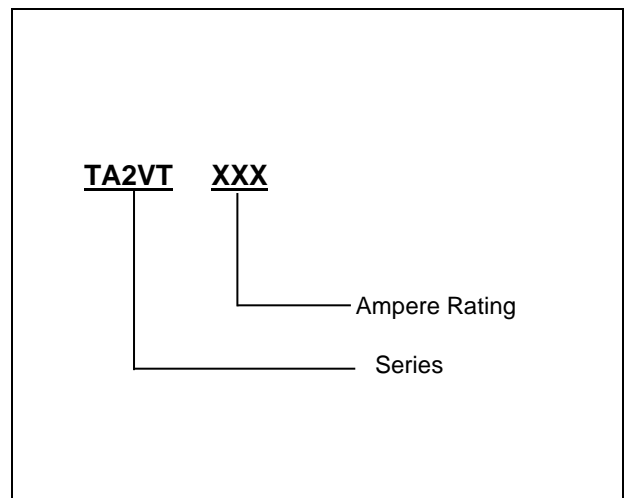
**Time Current Curves**



**Environmental Characteristic**

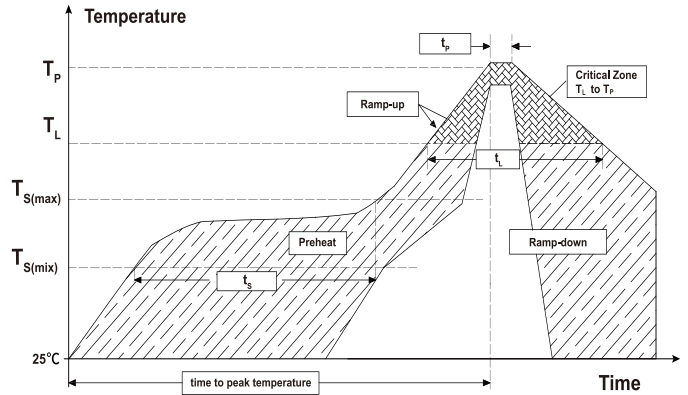


**Part Numbering System**



## Soldering Parameters

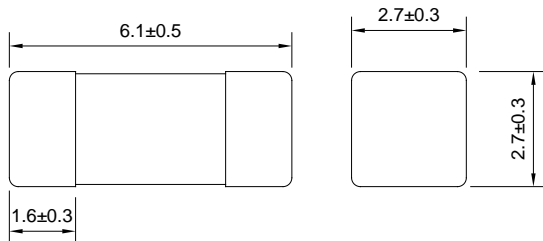
Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate ( $T_{S(max)}$ to $T_P$ )	5°C /second max.
Temperature Min ( $T_{S(min)}$ )	150°C
Temperature Max ( $T_{S(max)}$ )	200°C
Time (Min to Max) ( $t_s$ )	60-120 seconds
Temperature ( $T_L$ )	220°C
Time Max ( $t_L$ )	60 seconds
Peak Temperature ( $T_P$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



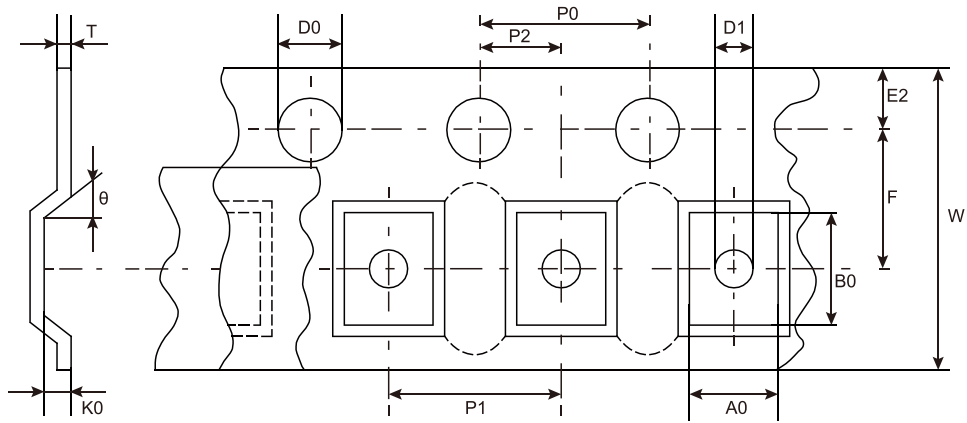
## Recommend pad layout (Unit:mm)



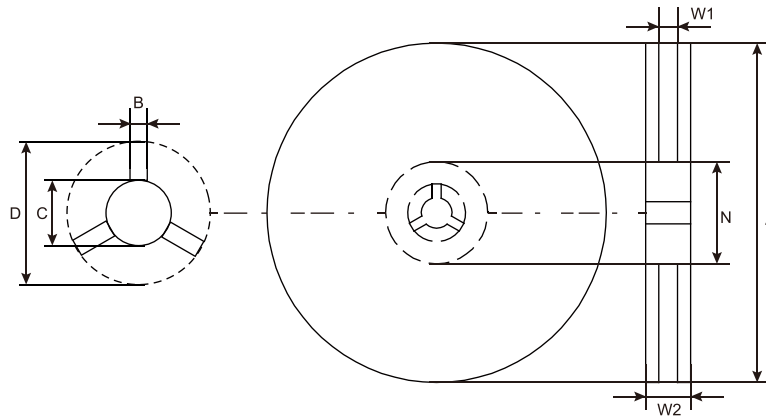
## Packaging

Part number	Quantity	Packaging Option	Packaging Specification
TA2VTXXX	1500	Tape & Reel - 12mm tape/13" reel	EIA STD RS-481

**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