

INDIVIDUAL SPECIFICATION SHEET

Product Name: Square Surface Mount Fuses

Part Number: TABFXXX 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

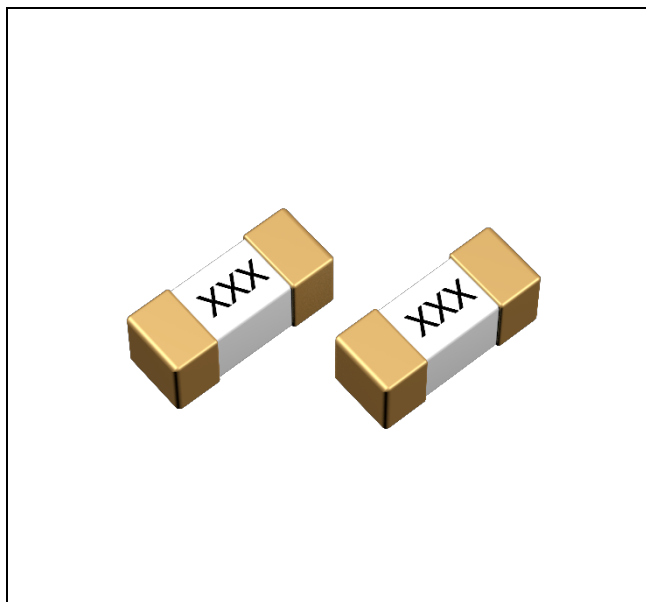
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PREPARED BY

APPROVED BY

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Description

Square Surface Mount Fuses

TABFXXX series fast-acting 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
	15A ~ 40A	E467707(JDYX2)
	15A ~ 40A	E467707(JDYX8)


Features

- Fast-acting
- Small size 6.1mm x 2.7mm
- Operating temperature: -55°C~125°C
- One-time protective effect
- RoHS Compliant
- Follow UL248-14

Electrical Characteristics

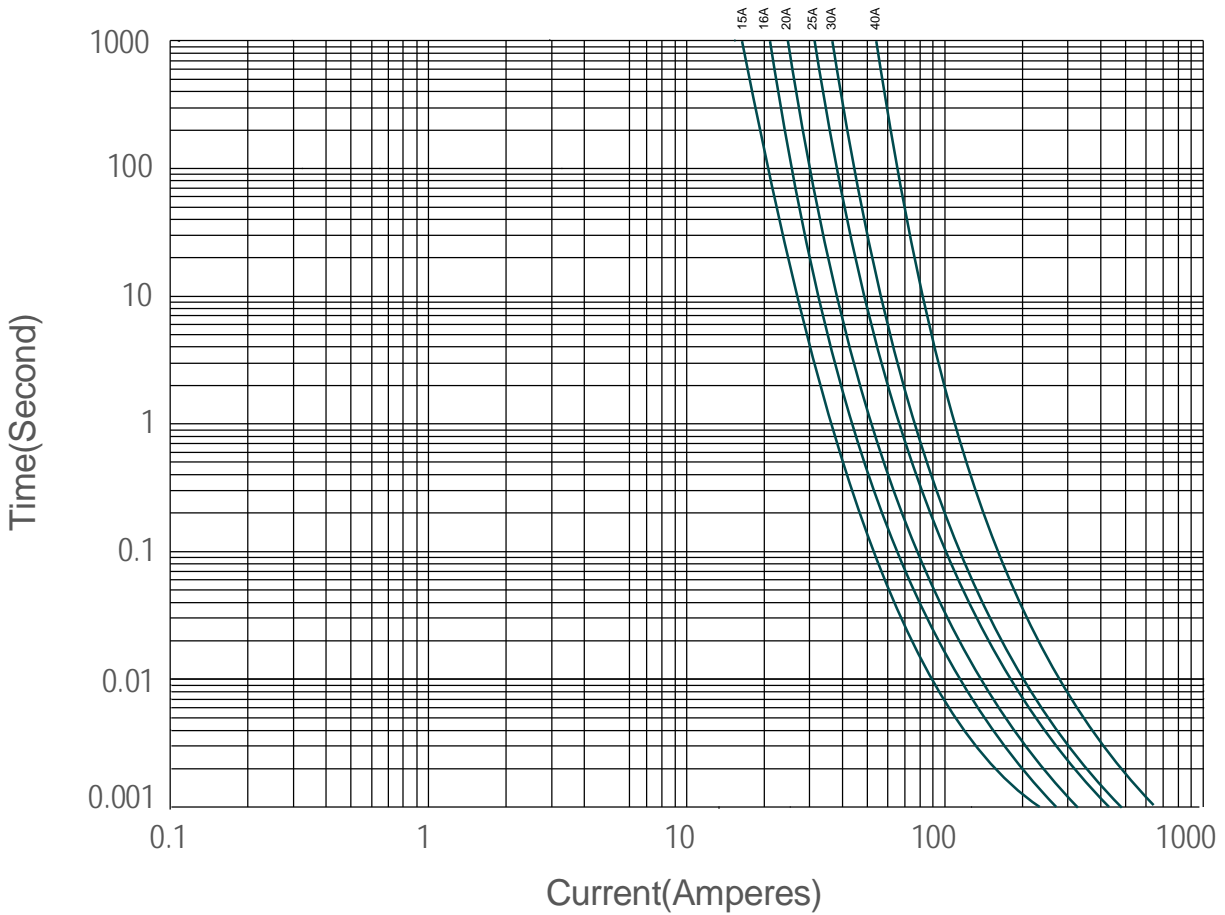
% of Ampere Rating	Opening Time
100%	4 hours Min.
200%	60 sec Max.

Electrical Specifications by Item

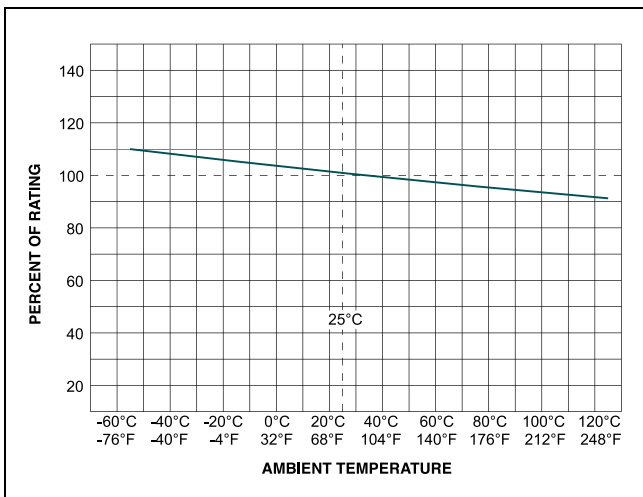
Product model	Ampere Rating	Voltage Rating	Breaking Capacity	Cold Resistance (mΩ)	Melting thermal energy I ² T(A ² S)	Safety Approvals
						
TABF15	15A	125Vac 72Vdc	200A@125Vac 500A@72Vdc	2.48	130.50	•
TABF16	16A	72Vdc	500A@72Vdc	2.40	148.48	•
TABF20	20A			1.78	232.00	•
TABF25	25A			1.35	362.50	•
TABF30	30A			1.10	522.00	•
TABF40	40A	63Vdc	500A@63Vdc	1.00	928.00	•

- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C;
- Typical Pre-arching I²t are calculated at 10*In Current or 8ms;

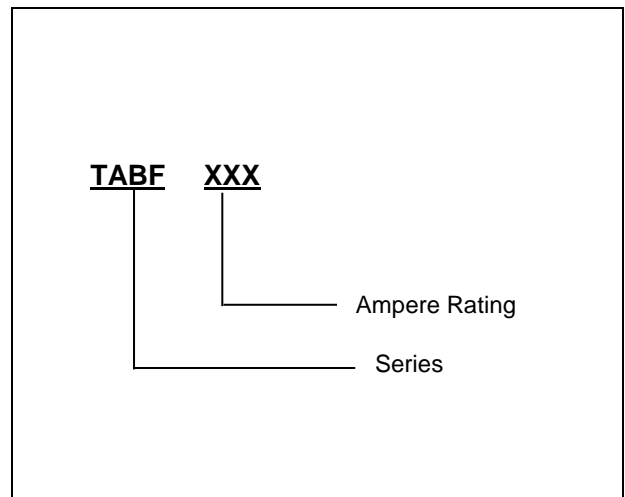
Time Current Curves



Environmental Characteristic

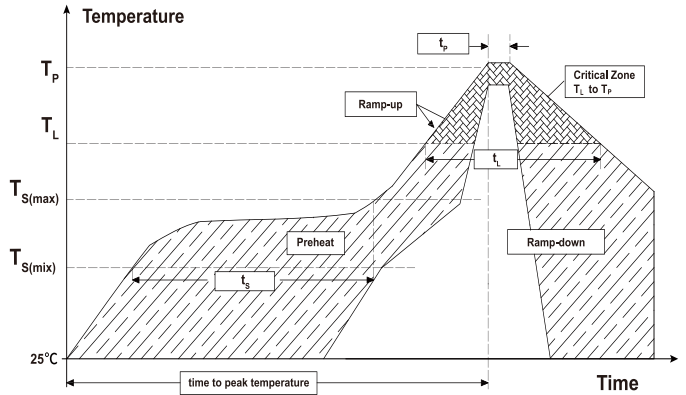


Part Numbering System

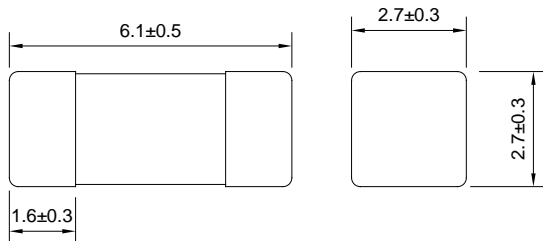
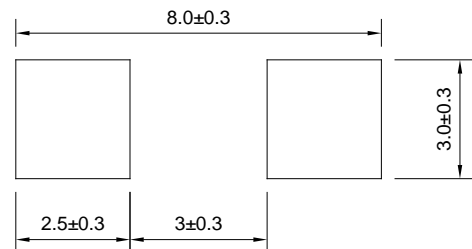


Soldering Parameters

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

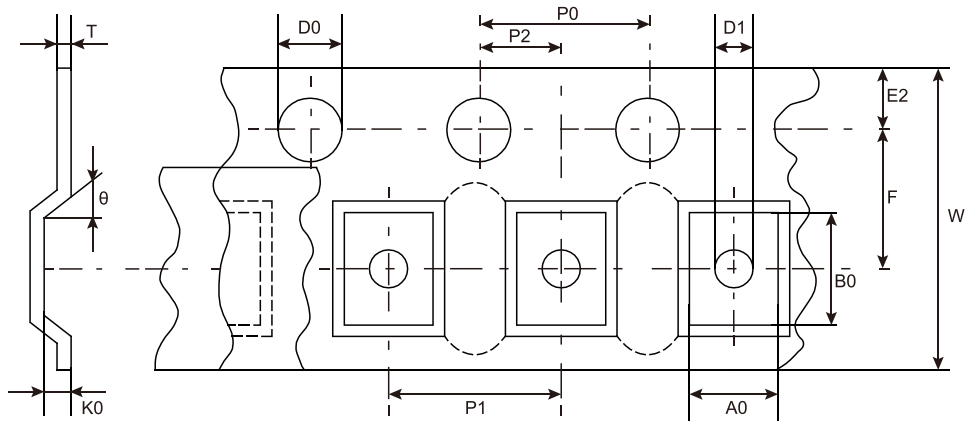

Material Details

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

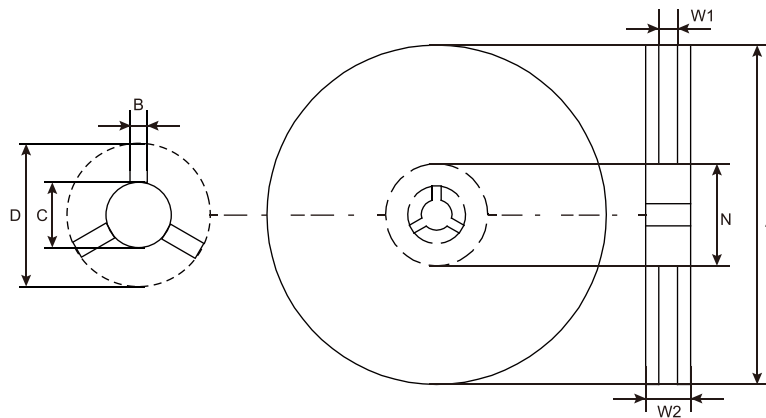
Dimensions and Structure (Unit:mm)

Recommend pad layout (Unit:mm)

Packaging

Part number	Quantity	Packaging Option	Packaging Specification
TABFXXX	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