

Type CTB

Time-Lag Ceramic Tube Fuses Series



Description

CTB Time-Lag type, 350V/500V rated designed In accordance to UL 248-1/UL 248-14.

Features

- Lead-free
- Reduced PCB space requirements
- Direct Solderability or plug-in versions
- Low internal resistance
- Vibration resistant
- Internationally approved
- Shock safe casing
- Halogen free

Applications

- Power supplies
- Consumer Electronics
- Adapter
- Battery Chargers
- Industrial Controllers

Agency Approvals.

Safety Agency	Agency File Number	Ampere Range Volt@I.R.Ability
	E485357	100mA-25A 125VAC@10000A 100mA-10A 250VAC@1500A 100mA-25A 250VDC@300A 100mA-25A 350VAC DC@300A 100mA-25A 500VAC DC@300A

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	1 Hour Min
200%	30min Max
1000%	10ms Min, 150ms Max

Electrical Characteristic Specifications by Item

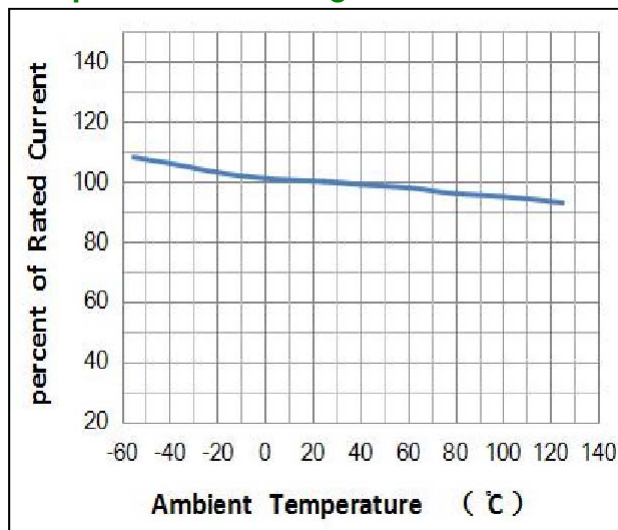
Catalog Number	Rated Current	Voltage Rating	Breaking Capacity	Melting Integral 10In min(A²S)	Agency Approvals	
					c us	c us
CTB1100	1A	350Vac 350Vdc 500Vac 500Vdc	350Vac@300A 350Vdc@300A 500Vac@300A 500Vdc@300A	3.000	•	
CTB1125	1.25A			4.844	•	
CTB1160	1.6A			8.704	•	
CTB1200	2A			15.600	•	
CTB1250	2.5A			23.125	•	
CTB1315	3.15A			32.744	•	
CTB1400	4A			54.400	•	
CTB1500	5A			85.000	•	
CTB1630	6.3A			138.915	•	
CTB1800	8A			236.800	•	
CTB2100	10A			360.000	•	
CTB1125	12.5A		350Vac@300A 350Vdc@300A 500Vac@300A 500Vdc@300A	578.125		•
CTB2150	15A			1035.00		•
CTB2160	16A			1177.60		•
CTB2200	20A			1600.00		•
CTB2250	25A			2500.00		•

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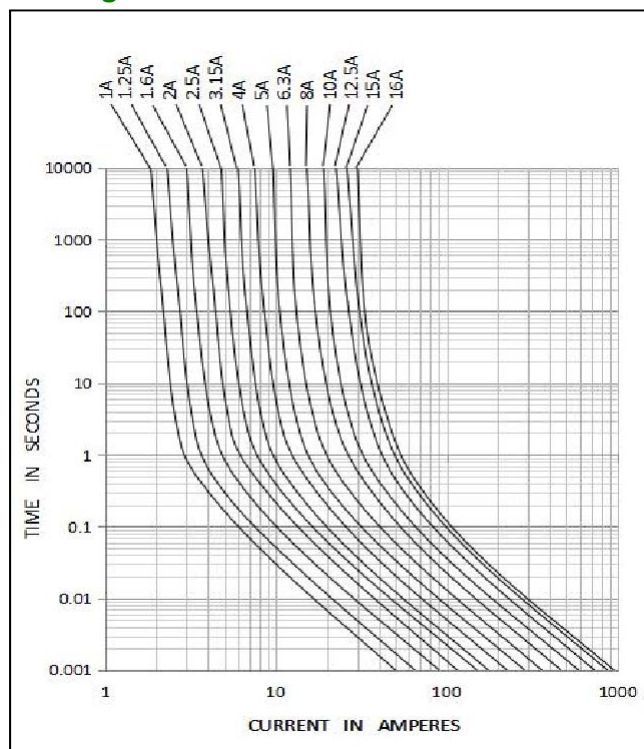
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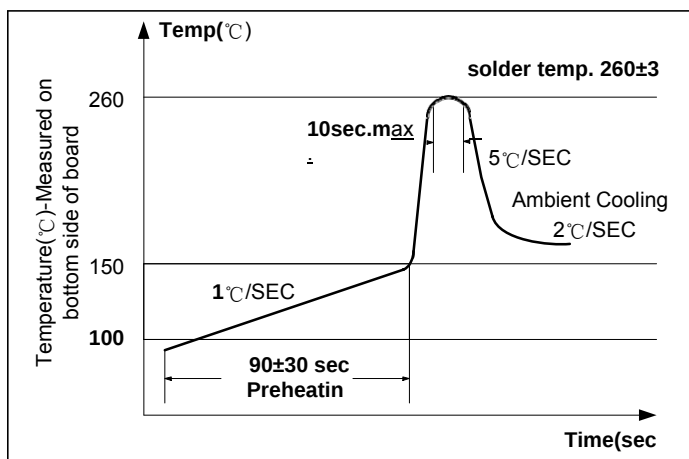
Temperature Re-rating Curve



Average Time Current Curves



Soldering Parameters-Wave Soldering



Recommended Process Parameters:

Lead-Free Wave Soldering Profile	
Wave Soldering Parameter	
Average ramp-up rate	200°C/second
Heating rate during preheat	Typical 1-2°C/second Max 4°C/second
Final preheat temperature	Within 125°C of soldering temperature
Peak temperature	260°C
Time within +0°C/-5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C/second max

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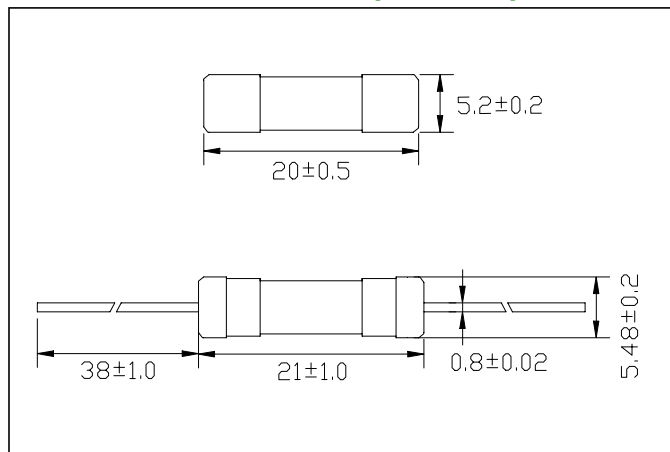


Product Characteristics

Materials	Ceramic Body Nickel Plated Brass Caps Lead Wire :Diameter 1.0mm Sheath : Diameter 5.0mm
Lead Pull Strength	10 N(IEC 60068-2-21)
Soldering Parameters	260℃,≤10 sec.(wave) 350℃,≤3 sec.(soldering iron)
Soldering Heat Resistance	260℃,10 sec.(IEC 60068-2-20) 350℃,≤3 sec.(soldering iron)

Operating Temperature	-55℃ to +125℃(consider de-rating)
Climatic Category	-40℃ to +85℃/21 days (EN 60068-1, -2-1, -2-2, -2-78)
Stock Condition	+10℃ to +60℃ Relative humidity ≤75% yearly Average, without dew, maximum Value for 30 days -95%
Vibration Resistance	24 cycles at 15 min. each (EN 60068-2-6) 10-60 Hz at 0.75 mm amplitude 60-2000 Hz at 10 g acceleration

Mechanical Dimensions(Unit:mm)



Ordering Information

	CTB	2160	3	01
FUSE TYPE CTB				
AMPERE RATING 16A(10 ² x160mA)				
VOLTAGE RATING 3:350V 5:500V				
COMPLEMENT 00:Standard 01:Axial Lead				

*Note:20A~25A Lead Φ1.2mm

Packaging

Packaging Option	Packaging Specification	Quantity
Standard(00)	N / A	500
Axial Lead(01)	N / A	100