

# Type GTH

## Time-Lag Ceramic Tube Fuse Series



### Description

GTH Time-lag Ceramic Tube Type, 125V/250V/350V/500V rated designed in accordance to IEC 60127.2, GB/T9364.2, UL 248-14.

### Features

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

### Applications

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

### Agency Approvals.

Safety Agency	Agency File Number	Ampere Range Volt@I.R.Ability
	R 50454825	1A~10A 1500A@250V AC 1A~10A 400A@350V AC 1A~10A 400A@500V AC
	2021980207000003(≤6.3A) 2021980207000002(8A~10A)	1A~10A 1500A@250V AC
	CQC17012183837	12.5A~16A 1500A@250V AC
	E485357	100mA~25A 10kA@125V AC 100mA~16A 1500A@250V AC 12.5A~25A 300A@250V AC 100mA~25A 300A@350V AC 100mA~25A 300A@500V AC 100mA~25A 300A@250V DC 100mA~25A 300A@350V DC 100mA~25A 300A@500V DC
	J 50438070	12.5A~16A 1500A@250V AC 20A~25A 500A@250V AC

### Electrical Characteristics for Series

% of Ampere Rating	Opening Time
110%	1 Hour ,Min
210%	30min,Max
275%	1s Min,80s Max
400%	150ms Min,5s Max
1000%	20ms Min,150ms Max

### Electrical Characteristic Specifications by Item

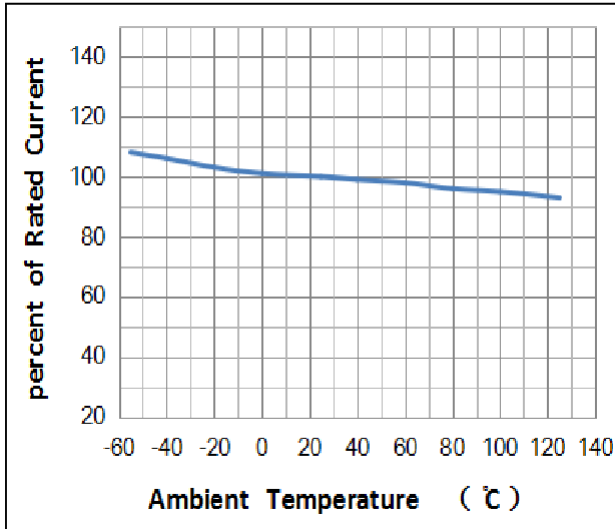
Catalog Number	Rated Current	Voltage Rating	Breaking Capacity	Melting Integral 10In min(A2S)	Agency Approvals			
					TUV	CQC	CCC	cURus
GTH0100	100mA	125VAC 250VAC 250VDC 350VAC 350VDC 500VAC 500VDC	10kA@125V AC 1500A@250V AC 300A@250V DC 400A@350V AC 300A@350V DC 300A@500V AC 300A@500V DC	0.002	●			●
GTH0500	500mA			0.242				●
GTH1100	1A			1.820	●		●	●
GTH1125	1.25A			4.844	●		●	●
GTH1160	1.6A			8.704	●		●	●
GTH1200	2A			15.600	●		●	●
GTH1250	2.5A			23.125	●		●	●
GTH1315	3.15A			32.744	●		●	●
GTH1400	4A			54.400	●		●	●
GTH1500	5A			85.000	●		●	●
GTH1630	6.3A			138.915	●		●	●
GTH1800	8A			236.800	●		●	●
GTH2100	10A			360.000	●		●	●
GTH2125	12.5A			578.125	●	●		●
GTH2150	15A			1035.00	●			●
GTH2160	16A			1177.60	●	●		●
GTH2200	20A				500A@250V AC 300A@250V DC 300A@350V AC 300A@350V DC 300A@500V AC 300A@500V DC	1600.00	●	●
GTH2250	25A		500A@250V AC 300A@250V DC 300A@350V AC 300A@350V DC 300A@500V AC 300A@500V DC	2500.00	●			●

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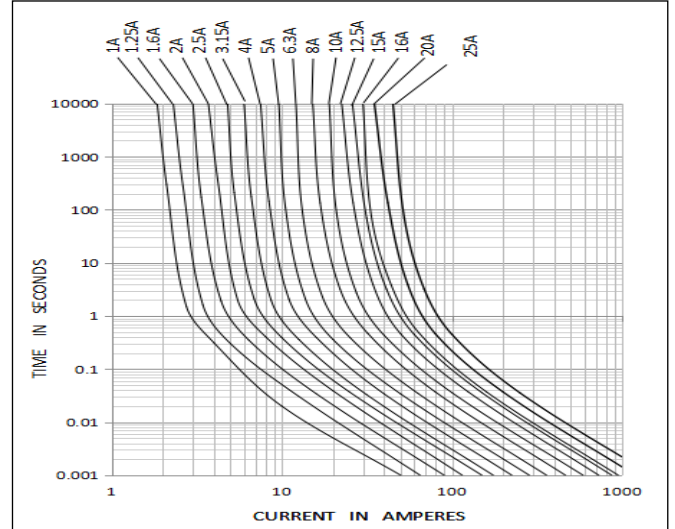
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### Temperature Re-rating Curve

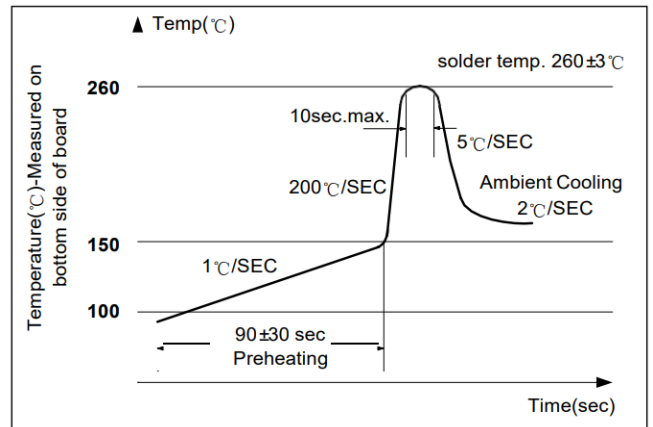


### Average Time Current Curves



### Soldering Parameters-Wave Soldering

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/-5°C of actual peak temperature	10 seconds
Ramp-down Rate	5°C/second max



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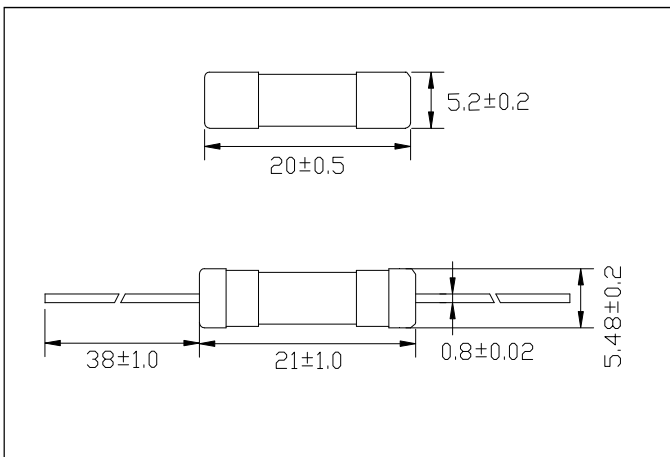


### Product Characteristics

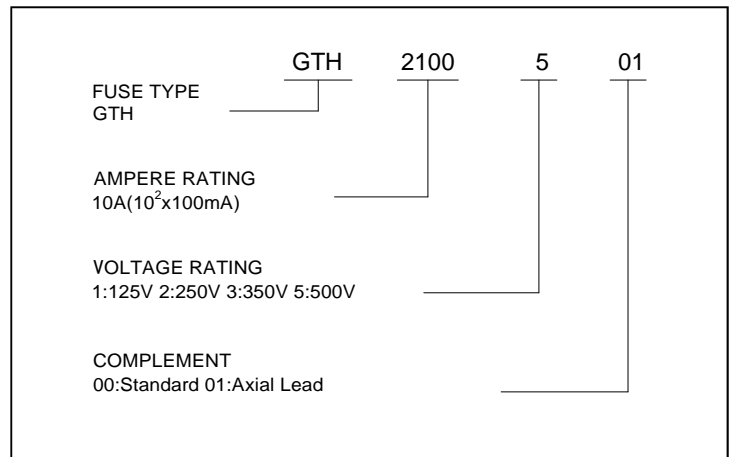
Materials	Ceramic Body Nickel Plated Brass Caps Lead Wire :Diameter 0.8/0.65/1.0mm
Lead Pull Strength	10 N(IEC 60068-2-21)
Soldering Parameters	260°C, ≤10 sec.(wave) 350°C, ≤3 sec.(soldering iron)
Soldering Heat Resistance	260°C, 10 sec.(IEC 60068-2-20) 350°C, ≤3 sec.(soldering iron)

Operating Temperature	-55°C to +125°C(consider de-rating)
Climatic Category	-40°C to +85°C/21 days (EN 60068-1, -2-1, -2-2, -2-78)
Stock Condition	+10°C to +60°C 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



\*Note:20A~25A Lead Φ1.0mm & Φ1.2mm

### Packaging

Packaging Option	Packaging Specification	Quantity
Standard	N / A	500pcs
Axial Lead	N / A	100pcs