

Time-Lag Ceramic Tube Fuse

PTU Series

Descriptions

This product is suitable for various kinds of electronic devices' circuit over current protection. Widely used in industrial of Lighting, Power supply and Adapter applications, etc.



Product Characteristics

- ◆ Lead Pull Strength: 5N for 10±1 Seconds.
- ◆ Lead Thrust Strength: 2N for 10±1 Seconds.
- ◆ Solder Ability: Wave: 260°C, ≤3s;
Soldering Iron: 350±10°C, ≤3s.
- ◆ Soldering Heat Resistance: Wave : 260°C, 10s;
Soldering Iron: 350°C, 5s.

Material Details

Part Name	Material
Cap	Nickel Plated Brass
Body	Non-Transparent Ceramic Tube
Fuse Element	Alloy
Lead Wire	Tin Plated Copper

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Electrical Characteristics

Part Number	Ampere Rating (A)	Voltage Rating Vac(V)	Breaking Capacity	I ² T Melting Integral(A ² .S)
PTU0100A	0.1	250V	50A@250VAC	0.0042
PTU0125A	0.125	250V	50A@250VAC	0.010
PTU0160A	0.16	250V	50A@250VAC	0.025
PTU0200A	0.2	250V	50A@250VAC	0.035
PTU0250A	0.25	250V	50A@250VAC	0.056
PTU0300A	0.3	250V	50A@250VAC	0.10
PTU0315A	0.315	250V	50A@250VAC	0.12
PTU0350A	0.35	250V	50A@250VAC	0.15
PTU0400A	0.4	250V	50A@250VAC	0.25
PTU0500A	0.5	250V	50A@250VAC	0.35
PTU0630A	0.63	250V	50A@250VAC	0.55
PTU0750A	0.75	250V	50A@250VAC	0.70
PTU0800A	0.8	250V	50A@250VAC	1.1
PTU1100A	1	250V	50A@250VAC	2
PTU1125A	1.25	250V	50A@250VAC	3.8
PTU1150A	1.5	250V	50A@250VAC	4.2
PTU1160A	1.6	250V	50A@250VAC	6.2
PTU1200A	2	250V	50A@250VAC	13
PTU1250A	2.5	250V	50A@250VAC	18
PTU1300A	3	250V	50A@250VAC	28
PTU1315A	3.15	250V	50A@250VAC	32
PTU1350A	3.5	250V	50A@250VAC	39
PTU1400A	4	250V	50A@250VAC	43
PTU1500A	5	250V	50A@250VAC	50

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Electrical Characteristics

- ◆ Test Condition: All electrical test is to be conducted with the ambient air at a temperature of $25\pm 5^{\circ}\text{C}$.
- ◆ Load Capacity: When the fuse loads through 100% of rated current, should blow within 4 hours.
- ◆ Interrupting Rating: Breaking Capacity: 50A at 250V AC.

- ◆ Rising Temperature Test:

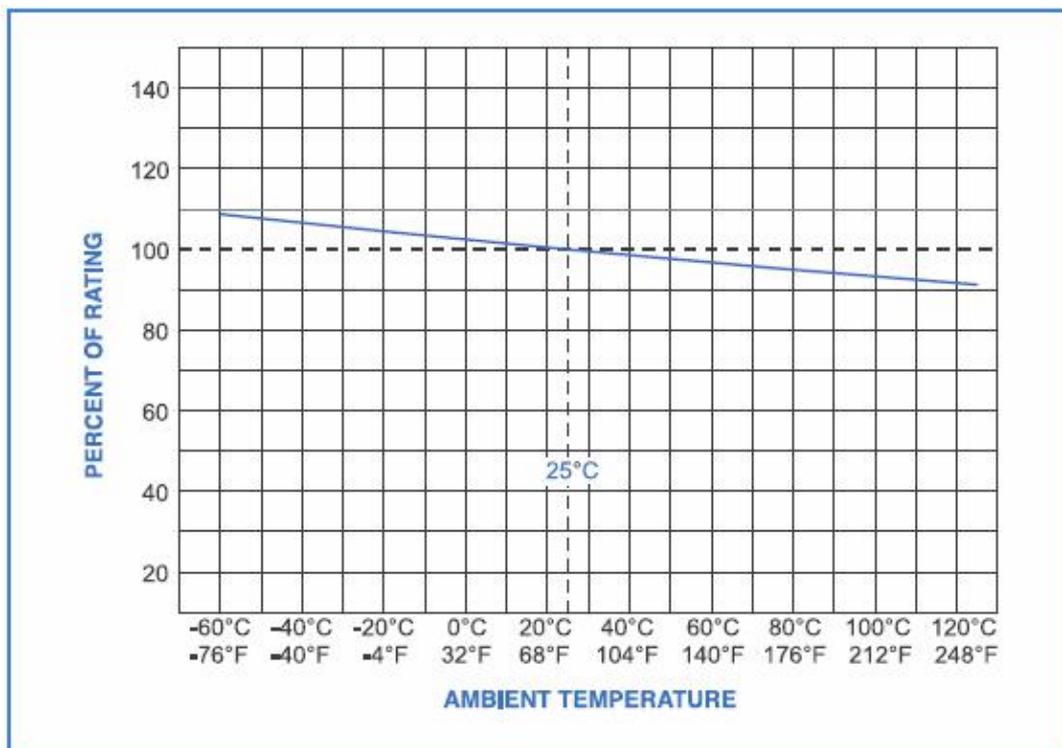
When the 100% times of Ampere Rating passes the fuse, after reaching thermal balance, the temperature on the fuse surface rising shall not be higher than 75°C . Note: Rising temperature = the Surface temperature - Ambient temperature.

- ◆ Operating Characteristics:

% of Ampere Rating(In)	Blowing Time
100% * In	4 hours Min
200% * In	60 sec Max

Environmental Characteristics

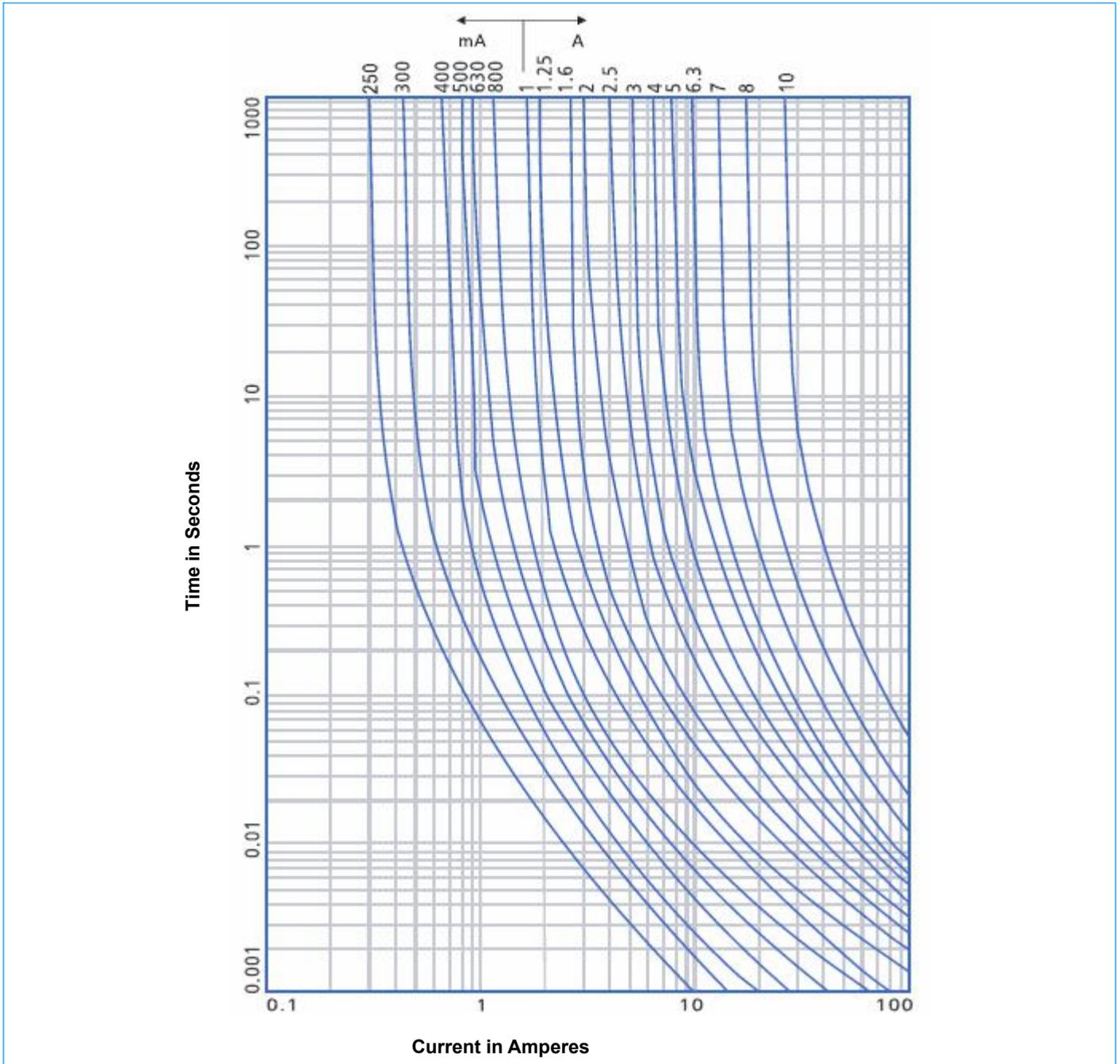
- ◆ Operating Temperature: $-55^{\circ}\text{C}\sim+125^{\circ}\text{C}$.
- ◆ Stock Condition: Humidity:Relative humidity $\leq 75\%$ store 3 years in average.
- ◆ When choosing the fuse's specification, if the operating environmental temperature beyond the scope from $20\sim 30^{\circ}\text{C}$, engineer should consider the environmental temperature's affection to fuses. Please refer: Temperature Rerating Curve:



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Average Time Current Curves



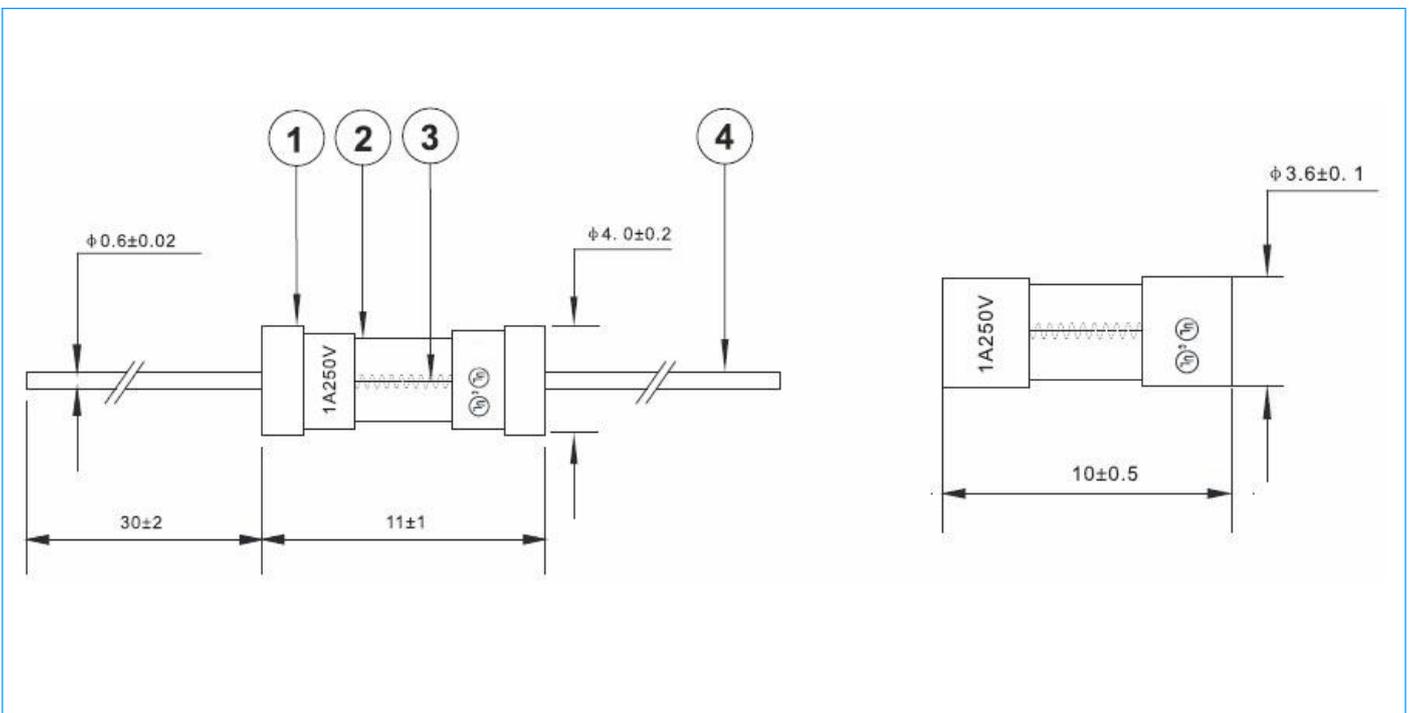
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Recommended Soldering Parameters

- ◆ Wave Parameters:
 - Solder Pot Temperature: 260°C Max;
 - Solder Dwell Time: 2~5s.
- ◆ Hand-Solder Parameters:
 - Solder Iron Temperature: 350±5°C;
 - Heating Time: 5s Max.

Dimensions and Structure (Unit: mm)



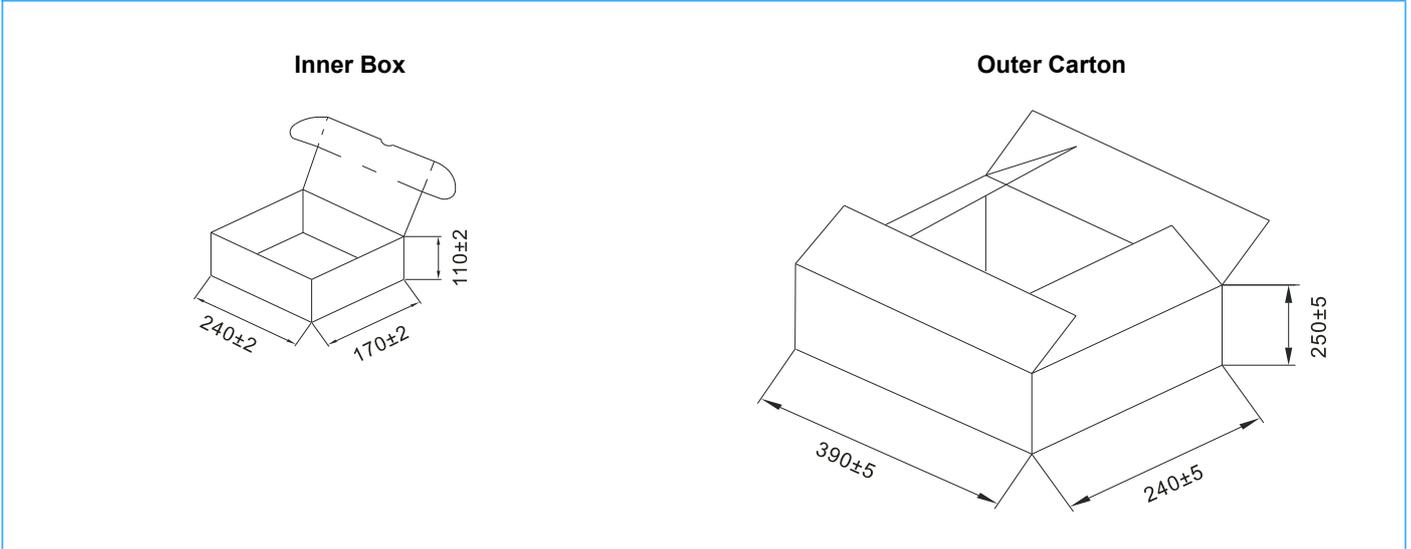
Packing Quantity

Series	poly bag	inner box	outer carton
PTU Series	500 pcs	10 poly bags	4 inner boxes

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Packing Size (Unit: mm)



Type	L	W	H
Inner Box	240±2	170±2	110±2
Type	L	W	H
Outer Carton	390±5	240±5	250±5