

Type 531

Fast Acting Ceramic Tube Fuses Series



Description

531 Fast-acting type, 300V in accordance to UL248-1, UL248-14

Features

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

Applications

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

Agency Approvals.

Safety Agency	Agency File Number	Ampere Range Volt@I.R.ABILITY
	E485357	250mA-10A 300Vac@1500A

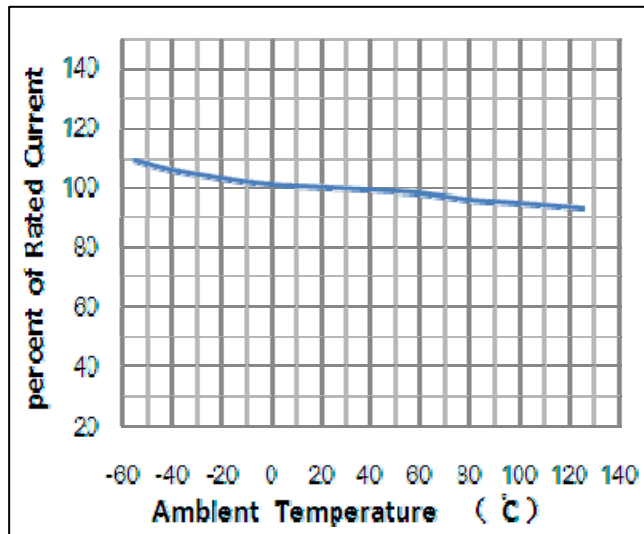
Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 Hour, Min.
210%	30min,Max.
1000%	20ms,Max.

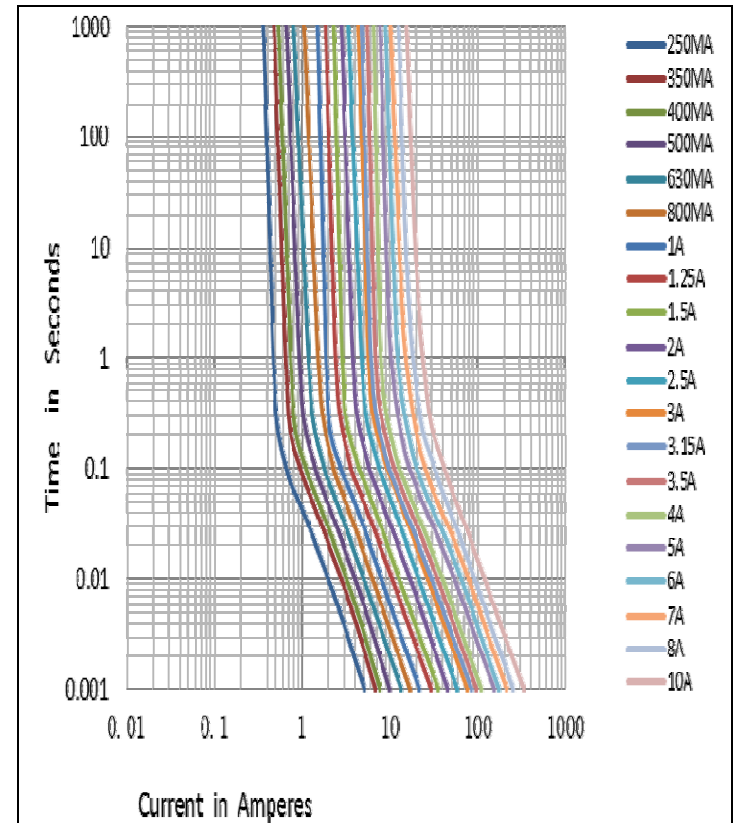
Electrical Characteristic Specifications by Item

Catalog Number	Rated Current	Voltage Rating	Breaking Capacity	Melting Integral 10In min(A ² S)	Agency Approvals
					cURus
531 0250	250mA	300V ac.dc	1500A	0.0375	●
531 0315	350mA		1500A	0.0735	●
531 0400	400mA		1500A	0.0960	●
531 0500	500mA		1500A	0.1500	●
531 0630	630mA		1500A	0.2381	●
531 0800	800mA		1500A	0.3776	●
531 1100	1A		1500A	0.6000	●
531 1125	1.25A		1500A	1.0937	●
531 1150	1.5A		1500A	1.5750	●
531 1200	2A		1500A	2.8000	●
531 1250	2.5A		1500A	4.3750	●
531 1315	3.15A		1500A	8.9302	●
531 1400	4A		1500A	16.0000	●
531 1500	5A		1500A	30.0000	●
531 1630	6.3A		1500A	43.2000	●
531 1700	7A		1500A	63.7000	●
531 1800	8A		1500A	89.6000	●
531 2100	10A		1500A	150.000	●

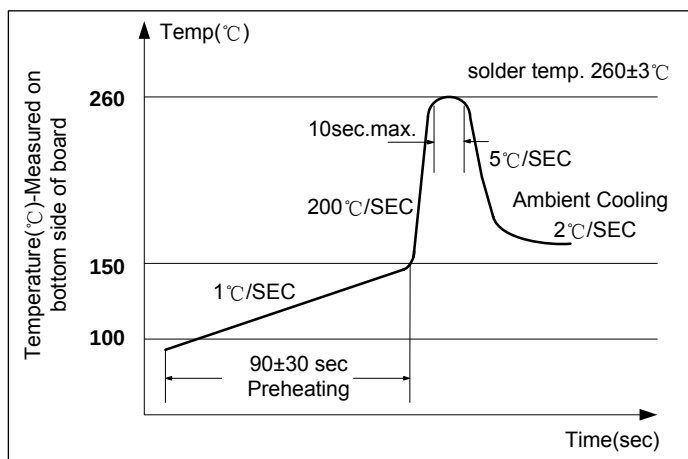
Temperature Re-rating Curve



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 T _p	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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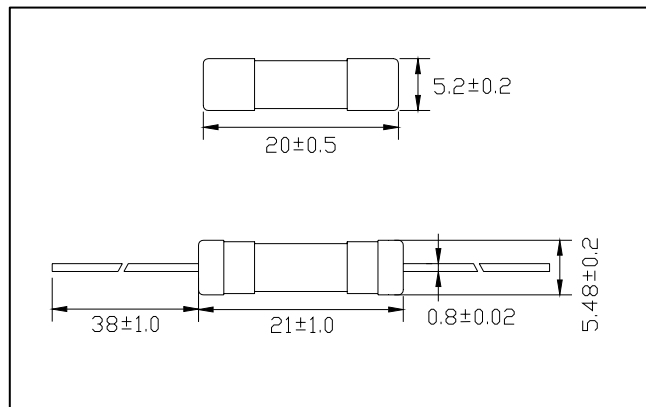


Product Characteristics

Materials	Ceramic Body Nickel Plated Brass Caps Lead Wire:Diameter 0.6mm
Lead Pull Strength	10 N(IEC 60068-2-21)
Solderability	260℃,≤3 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

	531	2100	3	00
FUSE TYPE	531			
AMPERE RATING				
10A(10 ² ×100mA)				
VOLTAGE RATING				
3:300V				
COMPLEMENT				
00:Standard 01:Axial Lead				

Packaging

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