

500VAC/DC, 6x32mm, Fast Acting Fuses HV681.XX Series

Description

- Fast Acting, high breaking capacity under 500VAC/DC
- Special Engineering Material tube, Silver plated cap construction
- High breaking capacity for high energy application
- RoHS and Lead Free material

Electrical Characteristics	
1.0In	4 hours, Minimum
2.5In	120 Seconds, Maximum

Application

- Supplementary protection in appliance
- AC/DC, DC/DC module for EV/EV charging

Specifications

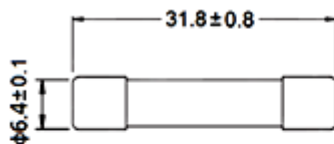
Part No.	Rated Voltage	Rated Current	Breaking Capacity (A)	Typical Cold. Resistance (mOhms)	Typical Pre-Arcing I ² t (A ² Sec)
	AC/DC				
HV681.10	500V	10A	1000	17.1	100
HV681.12		12A		12.3	140
HV681.15		15A		8.0	66
HV681.16		16A		8.0	62
HV681.20		20A		5.65	125
HV681.25		25A		3.8	390
HV681.30		30A		3.1	600

* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

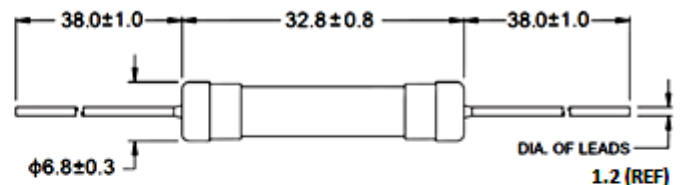
* Typical Pre-arcing I²t are measured at 10In Current

Dimension (mm) and ordering PN with lead Wire

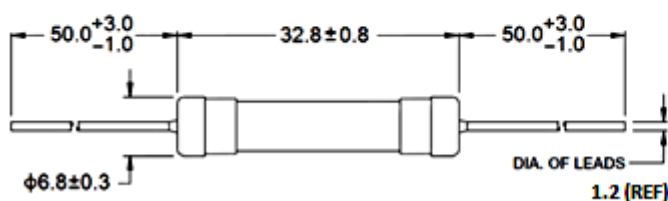
HV681.XX



HV681.XXP



HV681.XXP-L



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Soldering Parameter

Wave Soldering:

Solder Pot Temperature: 270°C Max.

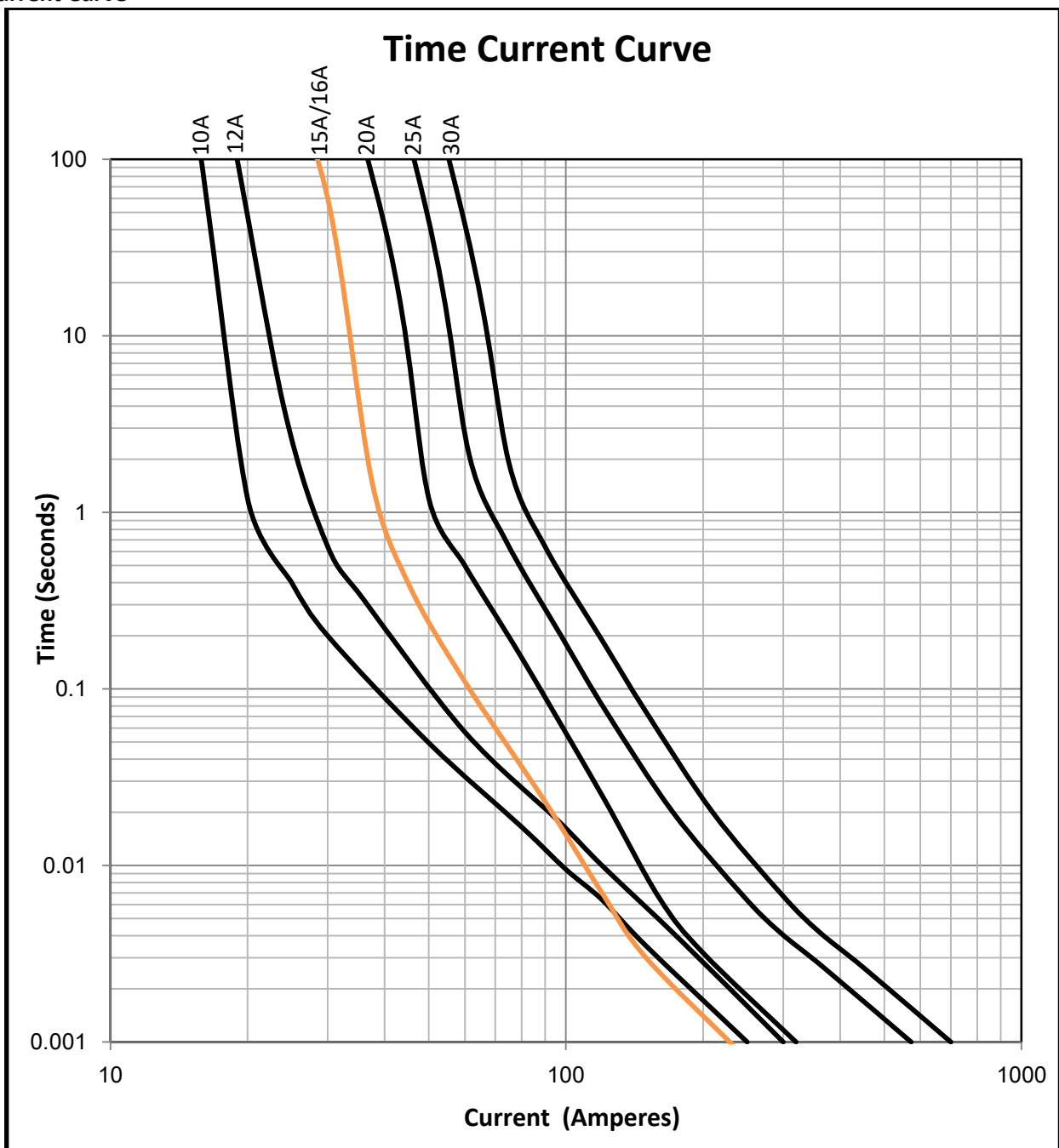
Solder Dwell Time: 10s Max.

Hand-Solder:

Solder Iron Temperature: 350°C +/- 5°C

Heating Time: 5s Max.

Time Current Curve



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Product Characteristics

Product Marking	Marking On Fuse Tube: Brand name, Product Series, Rated Current and Voltage, Agency approval mark
Operating Temperature	-50°C to 125°C
Terminal Strength	MIL-STD-202, Method 211, Test Condition A
Lead Solderability	MIL-STD-202, Method 208
Mechanical Vibration	MIL-STD-202, Method 201
Thermal Shock	MIL-STD-202, Method 107, Test Condition B (5 cycles -65°C to 125°C)
Humidity	MIL-STD-202, Method 103, Test Condition A: 95%RH and 40°C for 240 hours

Temperature Re-

Rating Curve

