INDIVIDUAL SPECIFICATION SHEET

Product Name: 500VAC/DC, 6x32mm, Fast Acting Fuses

Part Number: 6HVB Series

Revision: A

Dongguan TLC Electronic Technology Co., LTD
No.18,5th GaoLi Road,TangXia Town,DongGuan,GuangDong,P.R China 523710
TEL: 86-0769-3892 0511
FAX: 86-0769-8793 2077
Http: www.tlcet.com.cn

Rev.	Effective Date	Changed Contents
A	2019-8-21	New release

PREPEARED BY	APPROVED BY

Description

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

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

Application

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

Specifications

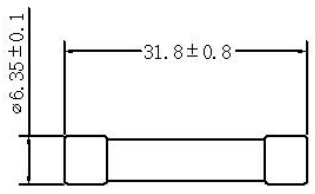
Part No.	Rated Voltage AC/DC	Rated Current	Breaking Capacity (A)	Typical Cold. Resistance (mOhms)	Typical Pre-Arcing I^2t (A^2Sec)
6HVB.10	500V	10A	1000A	17.1	100
6HVB.12		12A		12.3	140
6HVB.15		15A		8.0	66
6HVB.16		16A		8.0	62
6HVB.20		20A		5.65	125
6HVB.25		25A		4.3	487.5
6HVB.30		30A		3.5	450

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

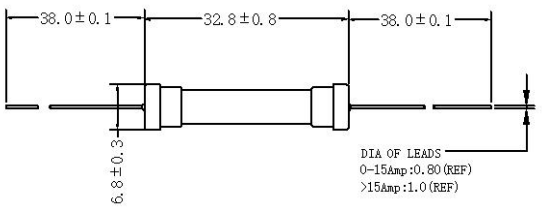
* Typical Pre-arcing I^2t are measured at 10In Current

Dimension (mm) and ordering PN with lead Wire

6HVB.XX



6HVB.XXP



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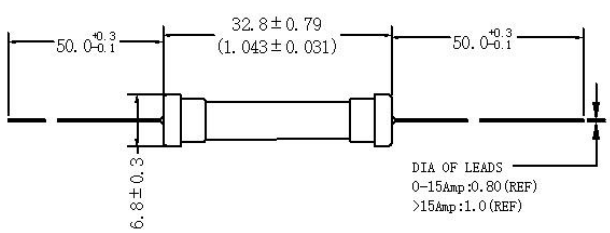

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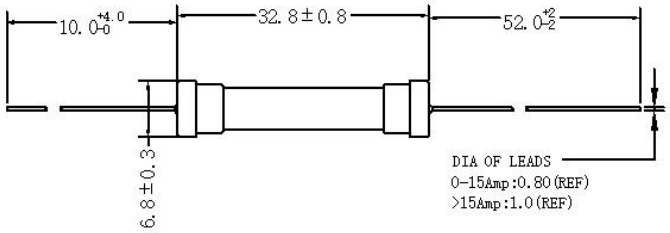


TLC Electronic

Soldering Parameter

Wave Soldering:

Solder Pot Temperature: 270°c Max.

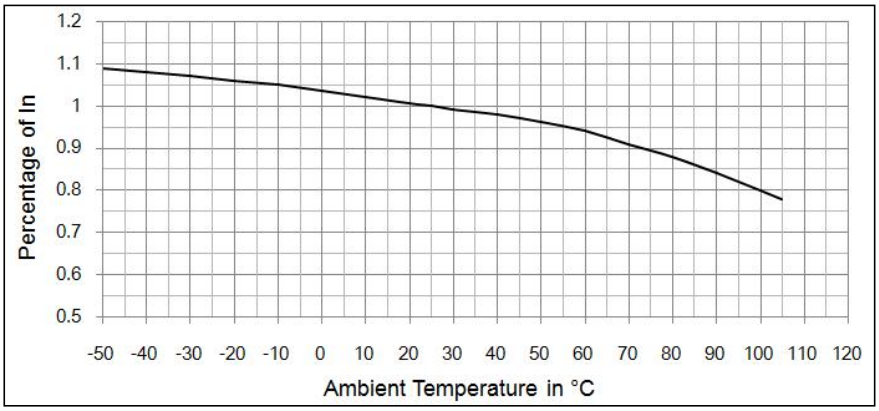
Solder Dwell Time: 10s Max.

Hand-Solder:

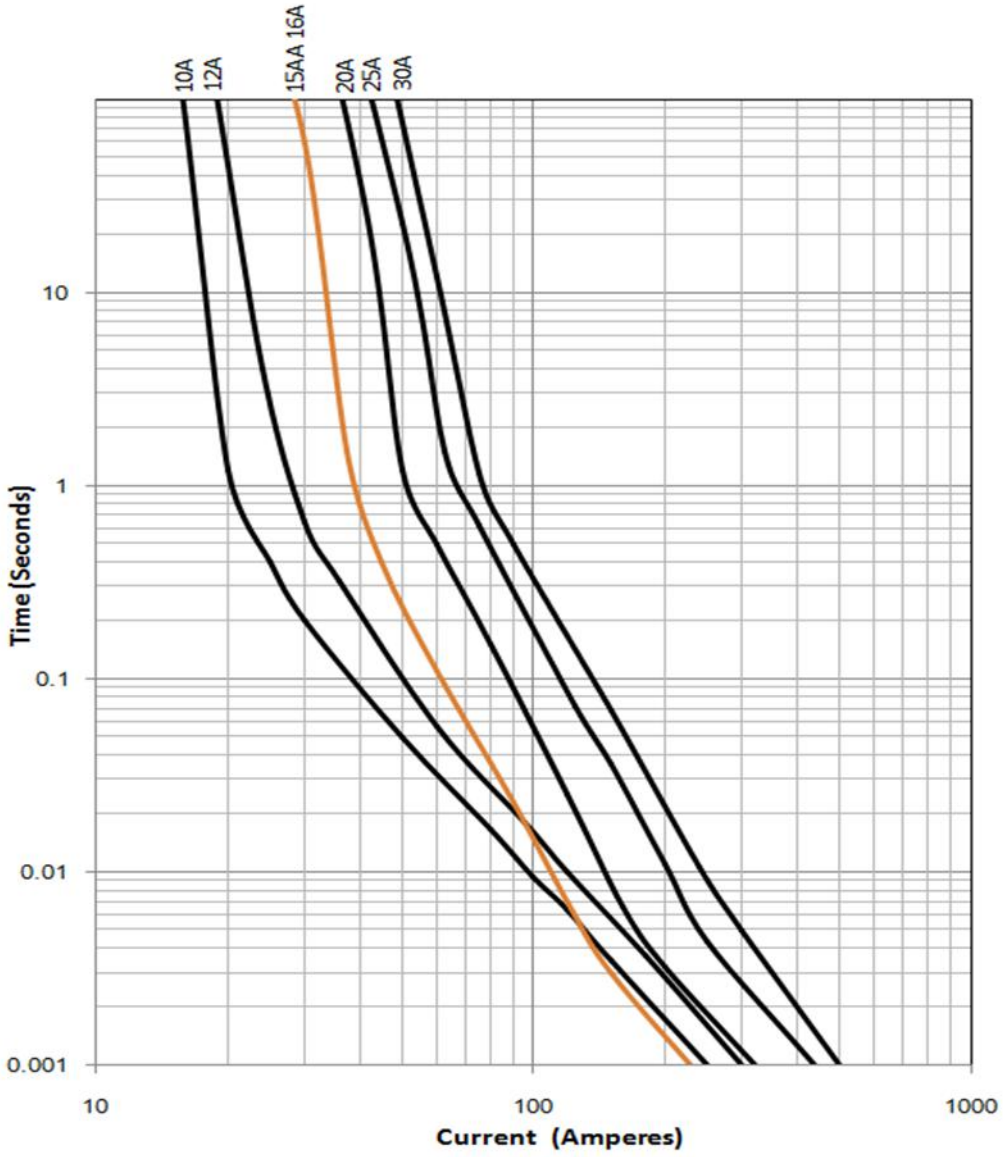
Solder Iron Temperature: 350°C+/- 5°C

Heating Time: 5s Max.

Temperature Re-Rating Curve



Time Current Curve



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