

# DLB45 - 60A



## High Current Brick Fuse 5a dYfY F Uhjb[ '60A

#### Description

- · High inrush/surge current withstanding capabilty brick fuse
- Surface mountable high current fuse
- · Very low cold resisstance, temperature rise, and voltage drop



- Single fuse solution for high current application
- Suitable for a wide variety of voltage requirement and application
- Enhances power efficiency
- Avoids nuisance opening due to high inrush and surge current inherent in the system; Can withstand below condition: On 2.5In/0.3Sec; Off 4Sec; 5000 times cycle
- Compatible with high volume assembly requirement

#### **Electrical Characteristics**

Amp Rating	% of Amp Rating	Opening Time		
60A	1.0 ln	4 hour min.		
	3.5 ln	10s max.		

#### Specifications

Part No.	Rated Voltage	Rated Current	Breaking Capacity	Typ. Cold Resistance	Typical Voltage Drop	Pre-Arcing I <sup>2</sup> t
	(DC)	(A)	(DC) <sup>1</sup>	(mΩ)	(mV)	(A <sup>2</sup> Sec) <sup>2</sup>
DLB45-60A	85V 72V 63V	60	85Vdc @ 1500A 72Vdc @ 1000A 63Vdc @ 1000A <sup>3</sup>	0.51	60	3100

1.DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds, battery source)

2. Typical Pre-arcing I2t are measured at 10In Current, DC battery bank, but not exceeding the interrupting rating, time constant of calibrated circuit less than 50 microseconds)

3.Self-certified for 85Vdc/1500A

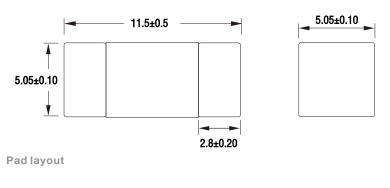


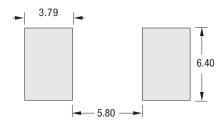
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## **High Current Brick Fuse**

#### Dimension

Unit: mm



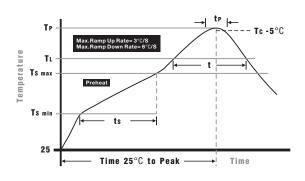


Recommend trace thickness is 3oz the minimum trace width is 22mm, 60A

#### Packaging

- Quantity: 1, 000pcs
- 24mm wide tape on 330mm (13 inch) diameter reel -specification EIA Standard 481.

#### **Soldering Parameters**



Wave Soldering: 260°C, 10 seconds max. Infrared Reflow: 260°C, 30 seconds max.

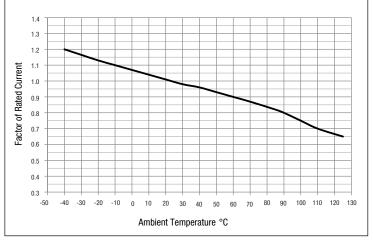
**IR Reflow Profile** 

Preheat Heat Temperature min (Tsmin) Temperature max(Tsmax) Time (Tsmin to Tsmax) (ts)	150°C 200°C 60 -120 seconds		
Average ramp-up rate (Tsmax to Tp)	3°C/second max.		
Liquidous temperature (TL) Time at liquidous (tL)	217 °C 60 - 150 seconds		
Peak temperature(Tp)	260+0/-5°C		
Time within 5°C of actual peak Temperature (tp)	10 – 30 seconds		
Average ramp-down rate (Tp to Tsmax)	6°C/second max.		
Time 25 °C to peak temperature	8 minutes max.		



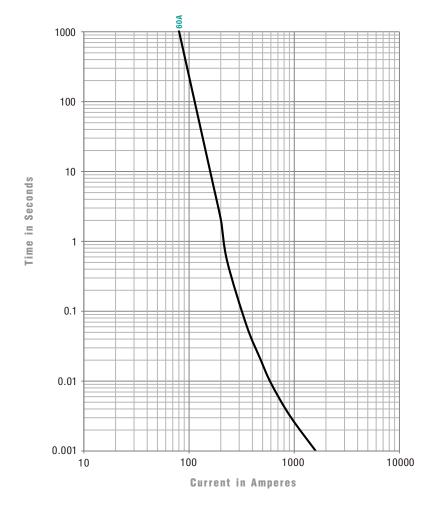
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### **High Current Brick Fuse**



#### **Temperature Re-rating Curve**

- Normal Operating Temperature: 25°C± 2°C
- Operating Temperature: -40°C to 125°C with proper correction factor applied.
- Chart of correction factor.



#### **Time-Current Curves**

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