

High Current Brick Fuse

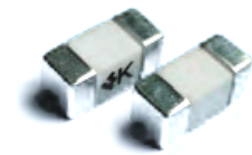
5a dYfY F Uj[b['15!60A

DHC45 Series



Descriptions

- High current brick fuse
- Surface mount deign to save space
- Ceramic Square body with end cap design
- Designed to UL248-1/14
- Fully compatible with lead-free solder and high temperature profile associated with lead-free assembly



Applications

- Power battery protection
- Test equipment
- Power supplies
- Game systems Industrial equipment Telecom system

Electrical Characteristics

Amp Rating	% of Amp Rating	Opening Time
15~60A	1.0 In	4 hour min.
	3.5 In	10s max.

Specifications

Part No.	Rated Current (A)	Rated Voltage (V)	Breaking Capacity DC ¹	Typ. Cold Resistance (mΩ)	Typical Voltage Drop (mV)	Pre-Arcing I ² t (A ² Sec) ²
DHC45-15A	15	85V /dc ³ 72V /dc 63V /dc 60V /dc ⁴	85Vdc @ 1000A 72Vdc @ 1000A 63Vdc @ 1000A 60Vdc @ 1500A	4.42	90	210
DHC45-20A	20			3.10	85	340
DHC45-25A	25			1.57	55	300
DHC45-30A	30			1.26	55	500
DHC45-35A	35			1.07	55	750
DHC45-40A	40			0.85	53	1200
DHC45-50A	50			0.65	45	2300
DHC45-60A	60			0.56	40	2800

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. TUV Approval is 85/72/63Vdc, 1000A, UL Approval is 72/63Vdc, 1000A

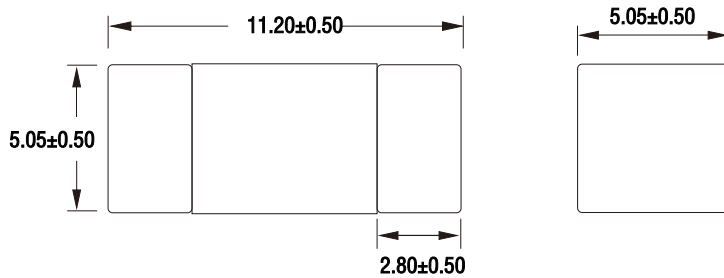
4. Self-certified for 60Vdc/1500A.

High Current Brick Fuse

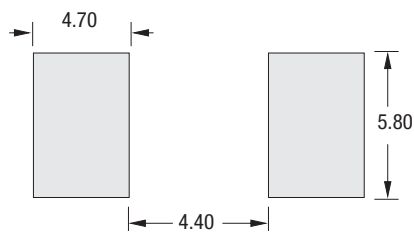
DHC45 Series

Dimension

Unit: mm

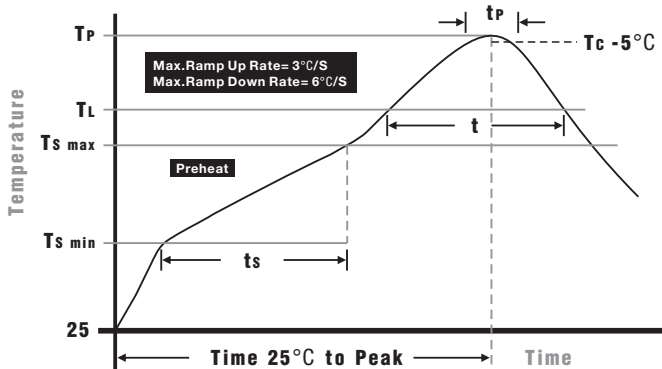


Pad layout



Recommend trace thickness is 3oz, the minimum trace width is 15mm, 15~35A
 Recommend trace thickness is 3oz the minimum trace width is 22mm, 40~60A
 Recommend solder thickness is 0.15mm;

Soldering Parameters



IR Reflow Profile

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

Soldering Characteristics

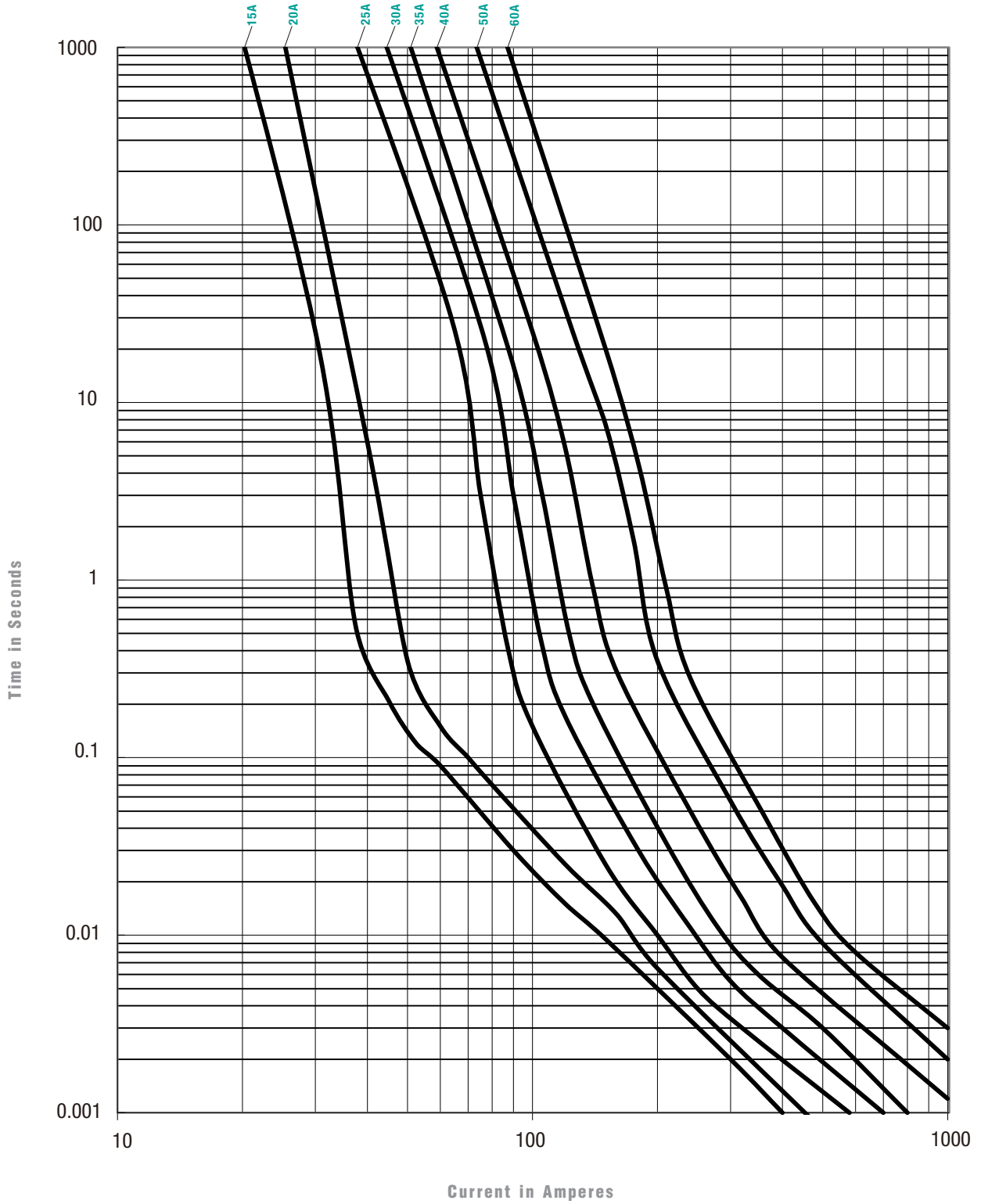
Reflow Soldering

- Temperature: 260°C
- Time: 30 Seconds Maximum

Manual Soldering (not recommended)

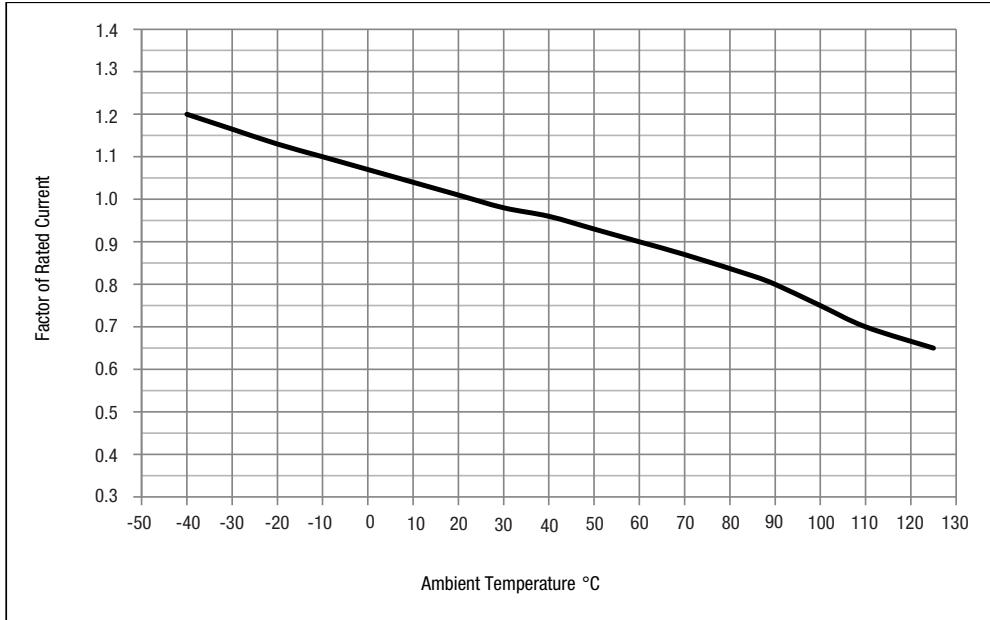
- Temperature: 350°C
- Time: 5 Seconds Maximum

Time-Current Curves



High Current Brick Fuse DHC45 Series

Temperature Re-rating Curve



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

Packaging

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

© 2021 PROSEMI Inc. All Rights Reserved.
 Specifications and features are subject to
 change without notice.
www.prosemitech.com

The PROSEMI logo, and all other PROSEMI
 trademarks are the property of PROSEMI Inc.
 All other trademarks are the property of their
 respective owners.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Specialty Fuses](#) category:

Click to view products by [PROSEMI](#) manufacturer:

Other Similar products are found below :

[ECF-1](#) [ECF-1/2](#) [ECF-2](#) [ECF-3](#) [ECF-4](#) [170M1418](#) [N-2-1/2](#) [N-3-2/10](#) [S-2](#) [170M1564D](#) [170M4241](#) [ABS-25](#) [ABS-30](#) [ABS-8](#) [FWP-25A14FI](#)
[FWP-80A22FI](#) [30CIF06](#) [TJD](#) [TPL-BL](#) [KLC40](#) [NITD25](#) [04450080FX850](#) [NITD16](#) [ECF-5](#) [TDC180-10](#) [TPM-25](#) [170M3509](#) [DEO200](#)
[004117001](#) [45ET](#) [170M5810D](#) [10H07C](#) [SDL-2](#) [CC12M10A](#) [TDC600-2-R](#) [CBW57-HB-15A-P](#) [CBW58-HL4-30A-5C](#) [CBW58-HS-15A-5C](#)
[CBW58-HS-20A-5C](#) [0AALBK300-BA](#) [170M8211](#) [STD2](#) [STD4](#) [4D27FB](#) [6H07-660](#) [15.5CAVH1E](#) [170M1360](#) [011-9926](#) [AD32](#) [AD16](#)