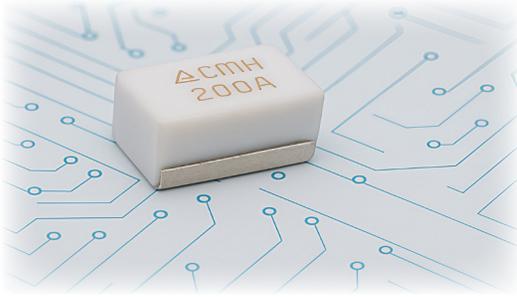


## CMHF2840H High Power Surface Mount Fuse Series (High Inrush, 2840 Size)



### Features

- Tin/Lead (Sn/Pb) or Tin (Sn) solder plated terminals.
- Low DC resistance (DCR)- Minimizes excessive power loss.
- High interrupting ratings for high power protection and inrush current.
- Single small case size for current rating of 150A and 200A.
- High safety with ceramic body and special arc-extinguishing filler.
- Reliable functionality throughout prolonged use.
- Robust construction for maximum reliability.

### Clearing Time Characteristics

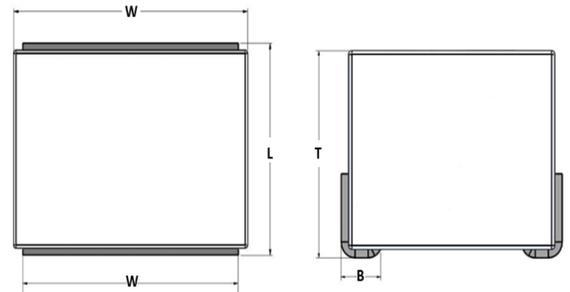
% Of Current Rating	Clearing Time @25°C	
	Min.	Max.
100%	4 Hours	-
250%	-	60 Seconds

### Applications

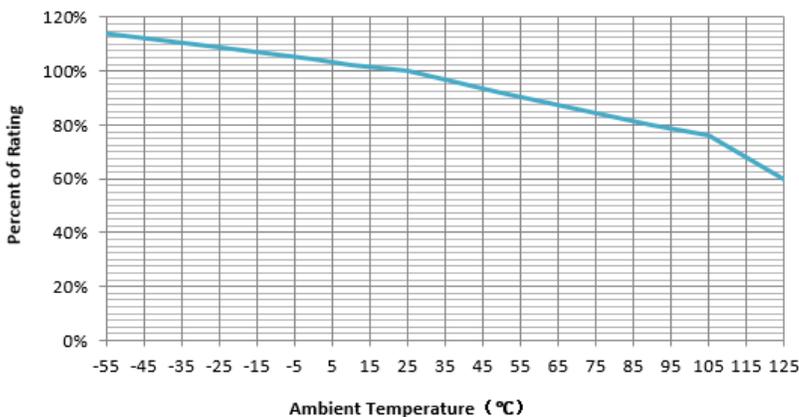
- Satellite/Spacecraft
- Aerospace
- Avionics
- Military
- Telecom DC/DC power
- Drones
- Battery and BMS
- PDU

### Product Dimensions

Dimension	Inch	mm
L	0.287 ± 0.012	7.3 ± 0.3
W	0.406 ± 0.008	10.3 ± 0.2
W1	0.374 ± 0.008	9.5 ± 0.2
T	0.228 ± 0.008	5.8 ± 0.2
B	0.047 ± 0.012	1.2 ± 0.3

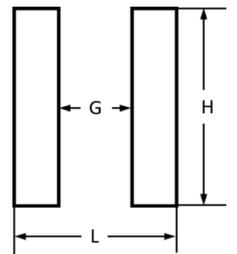


### Derating Curve



### Recommended Land Pattern

Dimension	2840	Unit
L	0.386 (9.8)	Inch (mm)
G	0.173 (4.4)	Inch (mm)
H	0.472 (12.0)	Inch (mm)



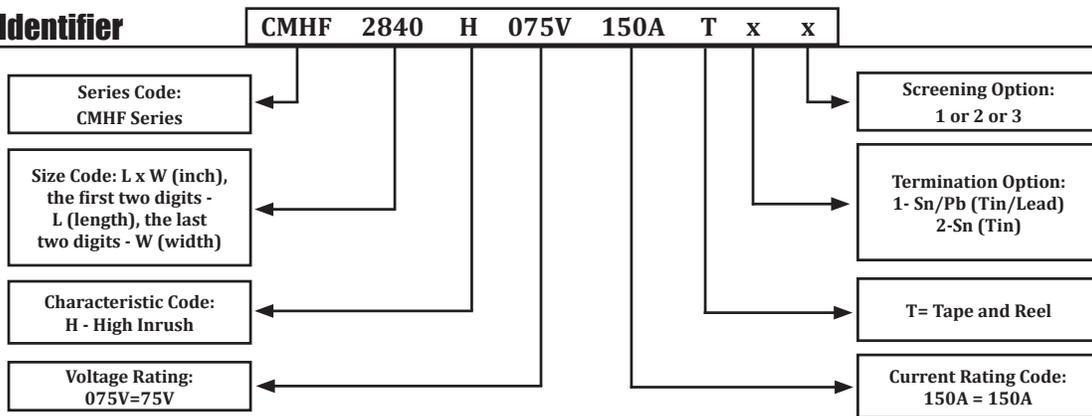
## CMHF2840H High Power Surface Mount Fuse Series (High Inrush, 2840 Size)

### Electrical Characteristics

Part Number	Voltage Rating (VDC)	Current Rating (Amps)	Interrupting Rating	Nominal DCR (mΩ)/1	Nominal I <sup>2</sup> t (A <sup>2</sup> s)/2	Marking Code/3
CMHF2840H075V150ATxx	75	150	1,500A @ 75VDC	0.29	16000	ΔCMH 150A
CMHF2840H075V200ATxx	75	200		0.20	28000	ΔCMH 200A

1- Measured at ≤10% rated current and 25°C ambient.  
 2- Melting I<sup>2</sup>t at 1000% of current rating.  
 3- Laser marking character code.

### Part Number Identifier



### Standard Screening Options:

- Standard 100% visual inspection per MIL-PRF-23419/13, AS9102 FAIR, MIL-STD-1580 DPA.
- Option 2: Group A and B Screening per MIL-PRF-23419/13, AS9102 FAIR, MIL-STD-1580 DPA (see AEM detail specification for more details).
- Option 3: Group A, B, and C Screening per MIL-PRF-23419/13, AS9102 FAIR, MIL-STD-1580 DPA (see AEM Detail Specification for more details).

### Termination Options:

- Tin/Lead (Sn/Pb)
- Tin (Sn)

### General Specification:

- Operating temperature: -55°C to +125°C. (With de-rating)
- Storage Temperature: -55°C to +125°C.
- Moisture sensitivity level: MSL=1.

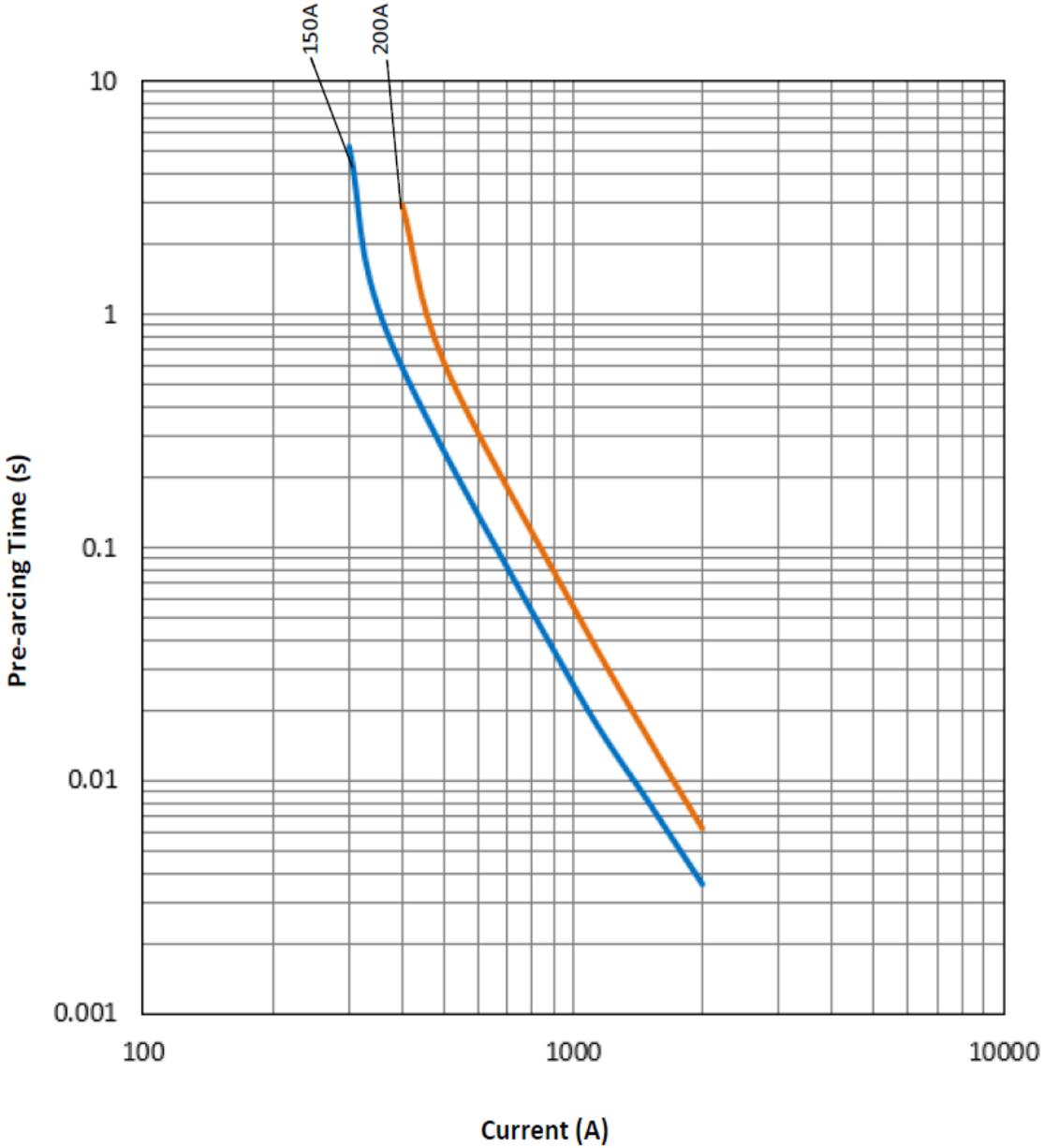
## CMHF2840H High Power Surface Mount Fuse Series (High Inrush, 2840 Size)

### Reliability Tests:

No.	Item	Condition	Criteria
1	Bend	2mm bend	DCR change within $\pm 20\%$ , no mechanical damage
2	Solderability	245°C, 5 seconds	New solder coverage $\geq 95\%$
3	Soldering Heat Resistance	260°C, 10 seconds	DCR change within $\pm 20\%$ , new solder coverage 75% minimum, no mechanical damage
4	Terminal Strength	Gradually apply 1.8 kg force to the bottom of the part for 60 seconds	DCR change within $\pm 20\%$ , no mechanical damage
5	Life	80% rated current, 2000 hours, ambient temperature +20°C to +30°C	Voltage drop change within $\pm 20\%$
6	Thermal Shock	-65°C to +125°C, 100 cycles	DCR change within $\pm 20\%$ , no mechanical damage
7	Mechanical Vibration	5–3000 Hz, 0.4 inch double amplitude or 30 G peak	DCR change within $\pm 20\%$ , no mechanical damage
8	Mechanical Shock	1500 G, 0.5 milliseconds, half-sine shocks	DCR change within $\pm 20\%$ , no mechanical damage
9	Salt Spray	5% salt solution, 48 hours exposure	DCR change within $\pm 20\%$ , no excessive corrosion
10	Moisture Resistance	10 cycles	DCR change within $\pm 20\%$ , no excessive corrosion

**CMHF2840H High Power Surface Mount Fuse Series (High Inrush, 2840 Size)**

**Average Pre-arcing Time Curves**



**CMHF2840H High Power Surface Mount Fuse Series (High Inrush, 2840 Size)**

**Average I<sup>2</sup>t vs. t Curves**

