

# FMC16 Option Code :AH/In-rush Withstand

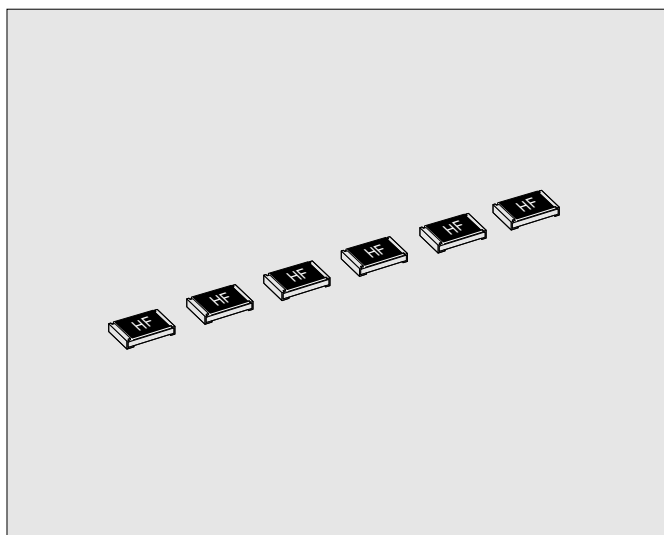
## ●Features

1. High anti pulse performance.
2. Pb\*1, Halogen\*2 and Antimony\*3 free product
  - \*1 Pb ≤ 1000ppm
  - \*2 Cl or Br ≤ 900ppm, Cl+Br ≤ 1500ppm
  - \*3 Sb<sub>2</sub>O<sub>3</sub> ≤ 900ppm
3. Certified UL, c-UL.
  - File No. : E176847

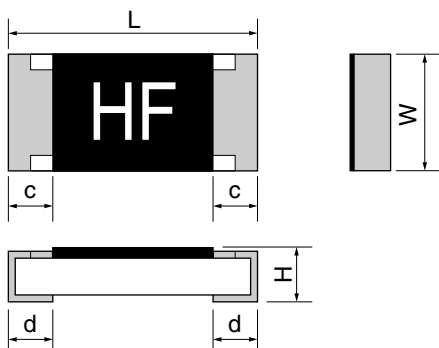


## 4. Major application

- PC related equipment and peripherals (PC, Hard Drive, Printer etc.).
- Small portable devices (Mobile phone, PDA Battery Charger etc.).
- Digital Camera (Digital still camera).
- Game equipment.
- LCD monitors, LCD modules.
- Battery pack.



## ●Dimension



Current value is marked on the cover coating.  
Please refer to Ratings table on next page.

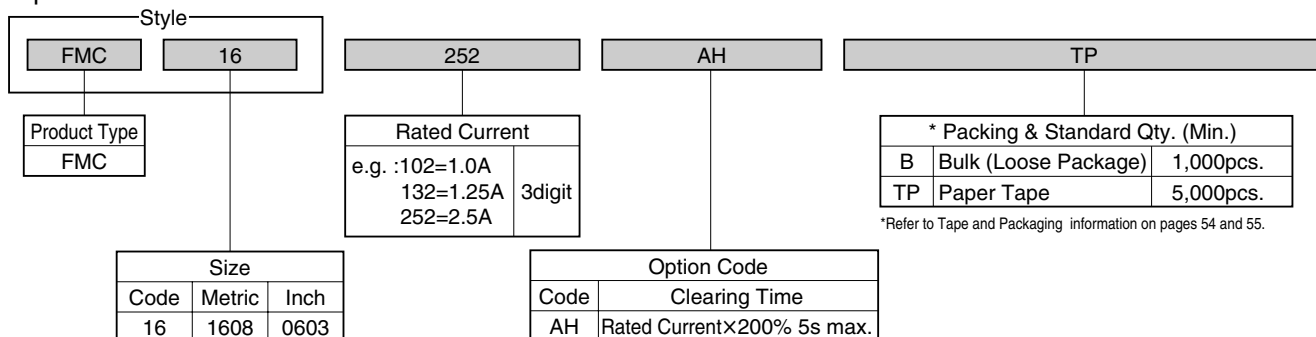
Style	Metric	Inch	L	W	H	c	d	*Unit weight/pc.
FMC16	1608	0603	1.6 ± 0.1	0.8 <sup>+0.15</sup> / <sub>-0.05</sub>	0.45 ± 0.10	0.3 ± 0.15	0.3 ± 0.1	2mg

Unit : mm

\*Values for reference

## ●Part Number Description

Example



CHIP FUSES; RECTANGULAR TYPE

FMC16 Option Code : AH

●Ratings/Option Code : AH (Fast-Acting type)

Size		Style	Rated Current		Internal Resistance m ohm max.	Mark	Interrupting Rating	Electrical Characteristics	Working Temperature Range °C								
Metric	Inch		Code	A													
1608	0603	FMC16	501	0.5	400	HF	32Vd.c. 35A	<table border="1"> <tr> <th>Rated Current</th> <th>Opening time</th> </tr> <tr> <td>×100%</td> <td>4h Min.</td> </tr> <tr> <td>×200%</td> <td>5s Max.</td> </tr> <tr> <td>×300%</td> <td>0.2s Max.</td> </tr> </table>	Rated Current	Opening time	×100%	4h Min.	×200%	5s Max.	×300%	0.2s Max.	-55~+125
			Rated Current	Opening time													
			×100%	4h Min.													
			×200%	5s Max.													
			×300%	0.2s Max.													
			631	0.63	300	HI											
			751	0.75	210	HA											
			801	0.8	180	HK											
			102	1.0	115	HL											
			132	1.25	90	HM											
			152	1.5	70	HH											
			162	1.6	60	HN											
			202	2.0	50	HS											
			252	2.5	37	HT											
302	3.0	28	HR														
322	3.15	26	HU														
402	4.0	18	HX														
502	5.0	14	HY														

●Performance Characteristics

Description	Requirements	Test Methods
Temperature rise on the surface	75°C max.	Ambient temperature : 10°C~30°C Carrying Current : Rated current
Bend strength of the face plating	No visible damage	IEC 60127-4 Clause 8.3 1mm/s, amount of bend : 3 mm
Solderability	At least 95% of the terminal surface must be covered by new solder	IEC 60127-4 Clause 8.5 Be immersed into solder at 235°C for 2s.
Resistance to soldering heat	No visible damage. Meet electrical requirement	IEC 60127-4 Clause 8.7 Be immersed into solder at 260°C for 10s.

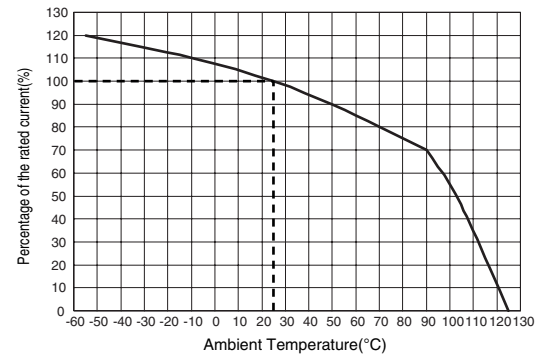
Note. Please contact KAMAYA for special applications.

●Recommended Derating for Rated Current

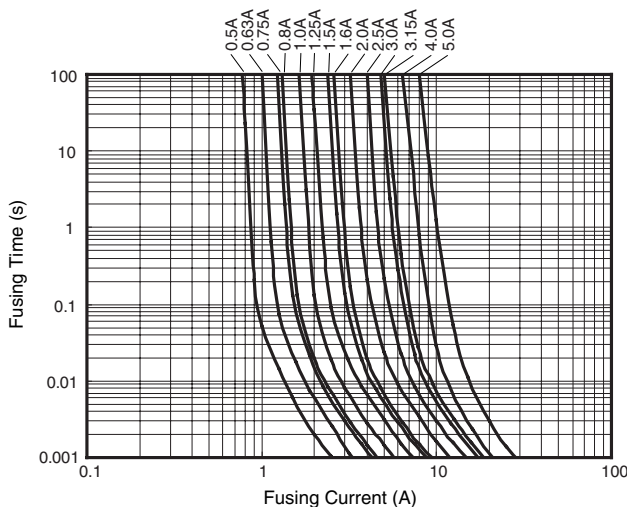
- Nominal Derating  
Nominal Derating ≤ 75% of Rated Current
- Temperature Derating

Please refer to the following graph regarding the current derating value for ambient temperature.

Ex.) If FMC16 102AH (Rated Current 1.0A) is used under ambient temperature 70°C,  
Kamaya recommends, less than the current value derated as below,  
Rated Current : 1.0A × (Nominal Derating : 75% × Temperature Derating : 80%) = 0.6A



●Time / Current Characteristics



●Help Support of Fuse Selection

Please contact kamaya sales Dept, if you need to confirm In-rush Current endurance, Anti-pulse performance etc. We can provide Application Guide for FMC16AH selection.

Messrs\*\*\* \*\*\*/20\*\*  
Kamaya Electric Co., Ltd.  
Hokkaido Research Center  
No.HR27GF05\*\*\*\*\*

Verification of Chip Fuse Application

Item for examination: Series FMC, Size 1608 (mm), OP Code AH. Operating condition: Application 1S V.d.c., Nominal 250 A, Ambient 70 deg.C Max., Recommended 1 A, A.

Item for recommend: P/N FMC16-152AH, Size 1608, Amp. 1.25 A, Rating 200% 5s, Interrupting 32Vd.c. 35A, Note Standing Pulse 100k times.

Confirmation for Interrupting: Condition 1S V.d.c., Voltage 15Vd.c. 30Vd.c., Current 20A 15A, Judgment OK OK.

Confirmation for Derating: Nominal Derating 75%, Temperature Derating 80%.

Basis of selection: #1 1.1608087 A Max., #2 2 A Max.

Confirmations for Rush

Items: Temporal variation, Num of surge 1. Scale Integral, Scale Integral.

Confirmation of Rush: Items FMC, Size 16, 132, AH, Current 1.25A, Rating 200% 5s, Note Standing Pulse 100k times.

Recommended Item: FMC16-152AH