

# FMC/Low Ohm & Fast Acting

## Features

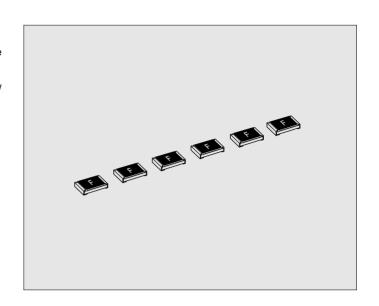
- 1. Suitable for over-current protection of the circuit of miniature portable equipment.
- 2. Low internal resistance compared with FCC/FHC16 AB series for low power consumption and voltage dropping.
- 3. Certified UL, c-UL.

·File No.: E176847

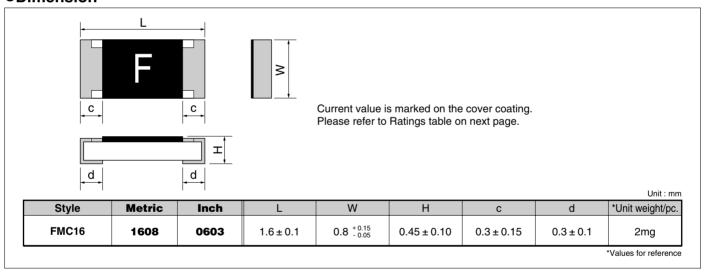


#### 4. Major application

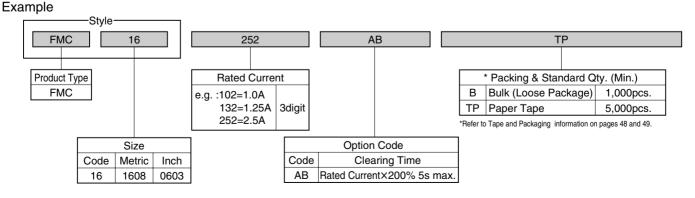
- •PC related equipment and peripherals (PC, Hard Drive, Printer etc.).
- •Small portable devices (Mobile phone, PDA Battery Charger etc.).
- •Digital Camera (Digital still camera).
- •Game equipment.
- •LCD monitors, LCD modules.
- ·Battery pack.



### Dimension



## Part Number Description



## CHIP FUSES; RECTANGULAR TYPE

## •Ratings/Option Code : AB (Fast-Acting type)

| Size   |      | Ctulo | Rated Current |      | Internal Resistance | Mark   | Interrupting Peting | Electrical Characteristics   |           | Category Temperature Range |
|--------|------|-------|---------------|------|---------------------|--------|---------------------|------------------------------|-----------|----------------------------|
| Metric | Inch | Style | Code          | Α    | m ohm max.          | iviark | Interrupting Rating | Electrical Characteristics   |           | °C                         |
| 1608   | 0603 | FMC16 | 501           | 0.5  | 260                 | F      | 32Vd.c. 35A         |                              |           |                            |
|        |      |       | 751           | 0.75 | 140                 | Α      |                     |                              |           |                            |
|        |      |       | 102           | 1.0  | 110                 | L      |                     | Rated Current   Opening time |           |                            |
|        |      |       | 132           | 1.25 | 80                  | М      |                     |                              | 4h Min.   | 55 . 405                   |
|        |      |       | 152           | 1.5  | 65                  | Н      |                     | ×100%                        |           |                            |
|        |      |       | 202           | 2.0  | 45                  | S      |                     | ×200%                        | 5s Max.   | −55~+125                   |
|        |      |       | 252           | 2.5  | 32                  | Т      |                     | ×300% 0.2s Ma                |           |                            |
|        |      |       | 302           | 3.0  | 26                  | R      |                     |                              | U.28 Max. |                            |
|        |      |       | 402           | 4.0  | 18                  | Χ      |                     |                              |           |                            |
|        |      |       | 502           | 5.0  | 14                  | Υ      |                     |                              |           |                            |

## Performance Characteristics

| Description                       | Requirements   | Test Methods  |  |  |  |
|-----------------------------------|--|---|--|--|--|
| Temperature rise on the surface   | 75°C max.  | Ambient temperature : 10°C~30°C<br>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.

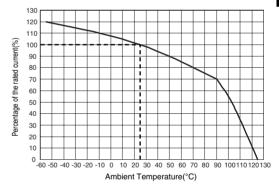
## Recommended Derating for Rated Current

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

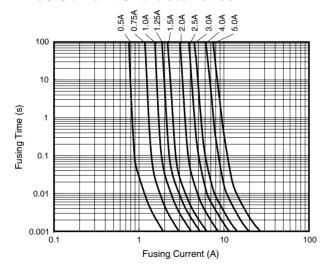
Please refer to the following graph regarding the current derating value for ambient temperature.

Ex.) If FSC16 102AB (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 FMC16 selection.

