

CHIP FUSES; RECTANGULAR TYPE

KAMAYA OHM

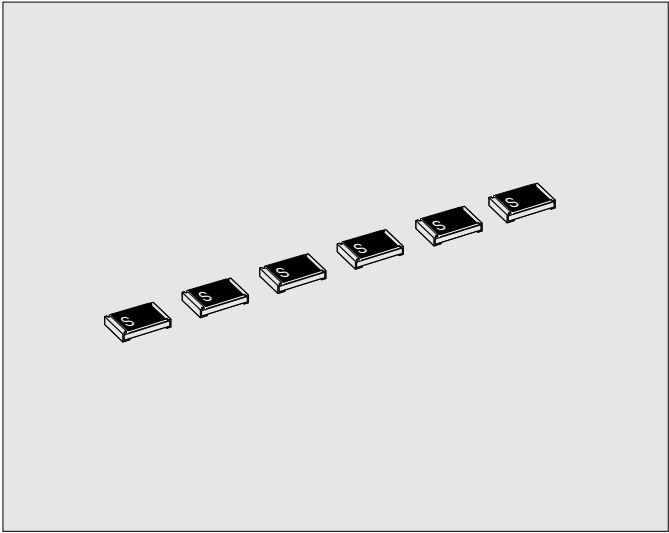
FSC/In-rush Withstand

●Features

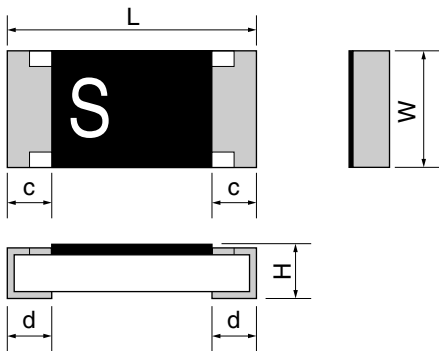
1. 0603inch size is available and suitable for circuit protection of portable devices and terminals.
2. High anti pulse performance.
3. Certified UL, c-UL.  
·File No. : E176847



- 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



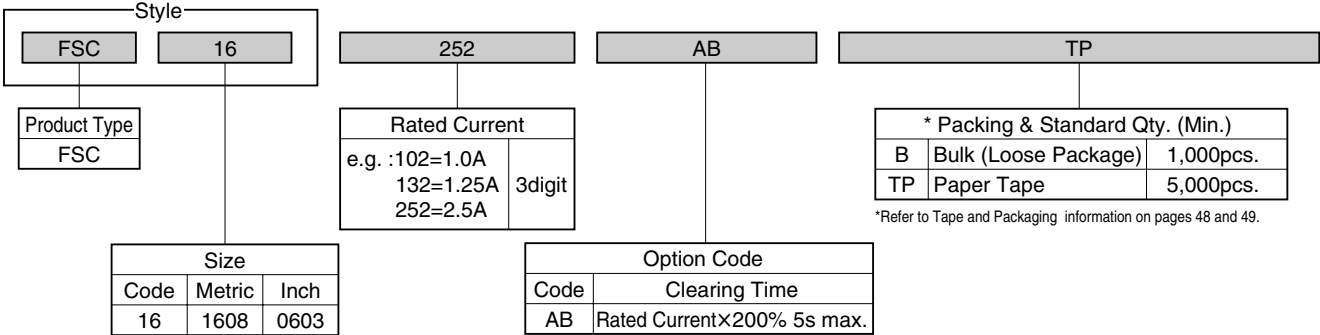
Current value is marked on the cover coating.  
Please refer to Ratings table on next page.

Unit : mm									
Style	Metric	Inch	L	W	H	c	d	*Unit weight/pc.	
FSC16	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	

\*Values for reference

●Part Number Description

Example



## CHIP FUSES; RECTANGULAR TYPE

FSC

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

Size		Style	Rated Current		Internal Resistance m ohm max.	Mark	Interrupting Rating	Electrical Characteristics		Category Temperature Range °C
Metric	Inch		Code	A						
1608	0603	FSC16	501	0.5	400	F	32Vd.c. 35A			-55~+125
			631	0.63	300	I				
			751	0.75	210	A				
			801	0.8	180	K				
			102	1.0	115	L				
			132	1.25	90	M				
			152	1.5	70	H				
			162	1.6	60	N				
			202	2.0	50	S				
			252	2.5	37	T				
			302	3.0	28	R				
			322	3.15	26	U				
			402	4.0	18	X				
502	5.0	14	Y							

## ●Performance Characteristics

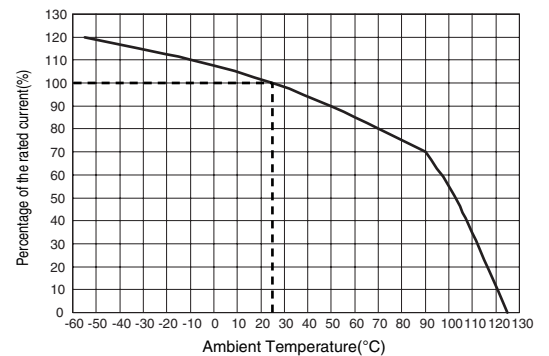
Description	Requirements	Test Methods
Temperature rise on the surface	75°C max.	Ambient temperature : 10°C~30°C Carrying Current : Rated current
Bend strength of the face plating	No visible damage	IEC 60127-4 Clause 8.3 1mm/s, amount of bend : 3 mm
Solderability	At least 95% of the terminal surface must 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.

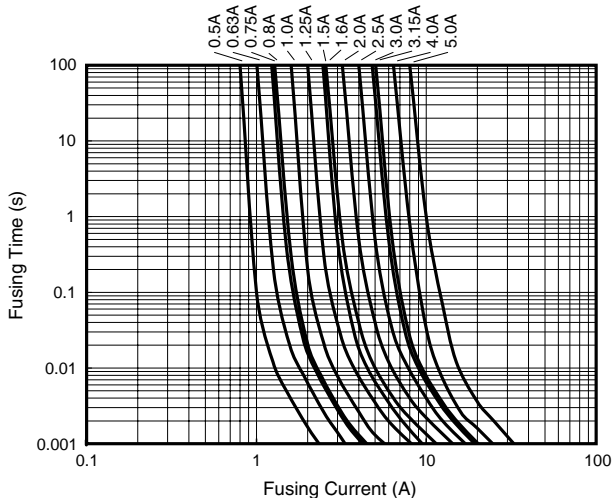
## ●Recommended Derating for Rated Current

- 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 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 FSC16 selection.

Messrs\*\*\*

Verification of Chip Fuse Application

Item for examination

Series	FSC
Size	1608 (mm)
Option Code	AB

Operating condition

Application	25 V d.c.
Rated	20 A
Normal	0.5 A Max.
Ambient	20 deg C Max.
Altitude	4 A

Item for recommend

Part	Size	Temp.	Fusing	Interrupting	Note
FSC16 132AB	1608	1.25 A	200% 5s	32Vd.c. 35A	Standing Pulse 100s times

Confirmation for Interrupting

Condition	Spec.	Endurance
Voltage	15Vd.c. 32Vd.c.	OK
Current	20A	OK

Confirmation for Derating

Nominal Derating	75%
Temperature Derating	80%

Basis of selection

#1	1.0A Min.
#2	2.0A Max.

Confirmations for Rush

Item	Spec.	Endurance
1	100A	OK
2	10A	OK
3	1A	OK
4	0.1A	OK

Confirmation of Rush

Item	Spec.	Endurance
#1	FSC 16 132 AB	OK
#2	1.25A	OK
#3	200% 5s	OK
#4	32Vd.c. 35A	OK

Recommended Item : FSC16 132AB

JAHA Product ID: JSC16

Time (s)