

# SBF32/Slow Blow

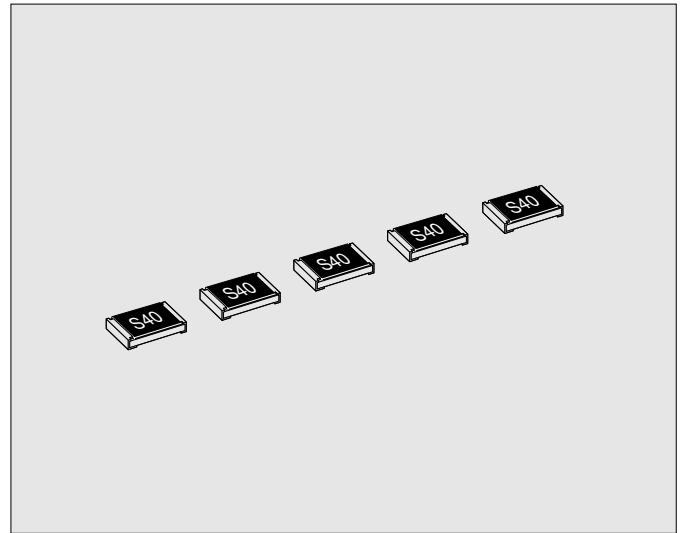
## ●Features

1. " Slow Blow " ensure high anti pulse performance.
2. High Rated Current available. max. 8.0A
3. 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
4. Certified UL, c-UL.
  - File No. : E176847

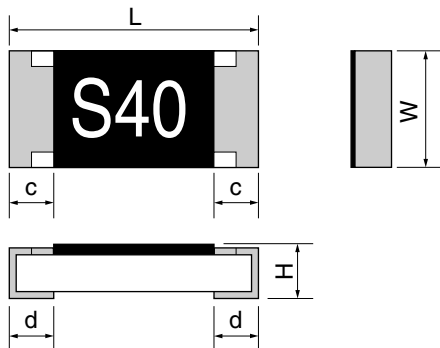


## 5. Major application

- Inverter Circuit for LCD Backlight
- PC related equipment and peripherals (PC, Hard Drive, Printer etc.).
- Battery Pack
- Motor Circuit, Power Supply etc.



## ●Dimension



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

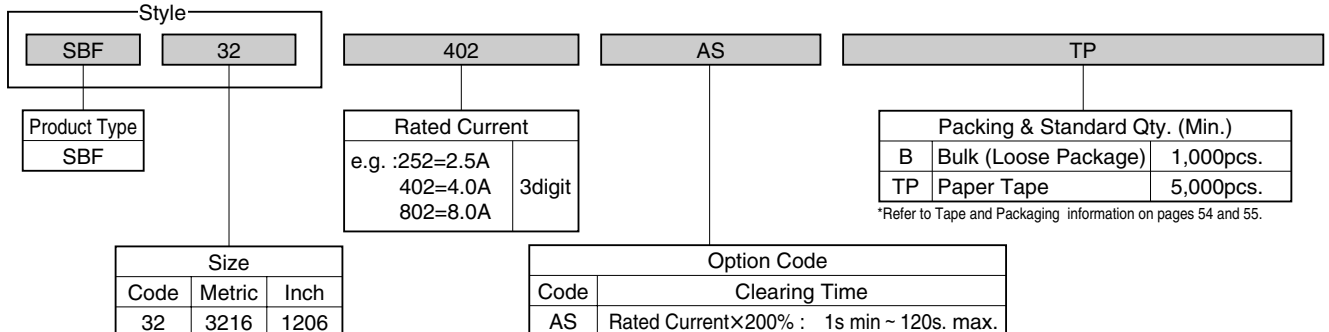
Unit : mm

Style	Metric	Inch	L	W	H	c	d	*Unit weight/pc.
SBF32	3216	1206	3.2±0.2	1.6±0.15	0.65±0.10	0.5±0.25	0.5±0.25	10mg

\*Values for reference

## ●Part Number Description

Example



# CHIP FUSES; RECTANGULAR TYPE

SBF32

## ●Option Code:AS(Slow Blow type)

Size		Style	Rated Current		Internal Resistance m ohm typ.	Mark	Interrupting Rating	Electrical Characteristics			Working Temperature Range °C
Metric	Inch		Code	A				Rated Current	Opening time Min.	Max.	
3216	1206	SBF32	102	1.0	130	S10	63Vd.c. 50A	x 100%	4h	—	- 55 ~ + 125
			132	1.25	94	S13					
			152	1.5	68	S15					
			202	2.0	40	S20					
			252	2.5	30	S25					
			302	3.0	24	S30	32Vd.c. 50A	x 200%	1s	120s	
			402	4.0	15	S40					
			502	5.0	12	S50					
			602	6.0	10	S60					
			702	7.0	7	S70					
802	8.0	6	S80	x 300%	0.02s	3.0s					
x 800%	0.0015s	0.05s									

## ●Performance Characteristics

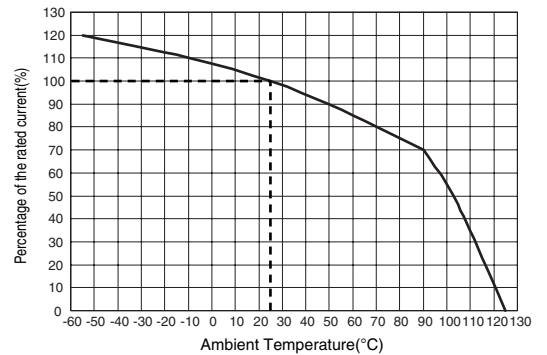
Description	Requirements	Test Methods
Temperature rise on the surface	75°C max.	Ambient temperature : 10°C~30°C Carrying Current : Rated current
Bend strength of the face plating	No visible damage	IEC 60127-4 Clause 8.3 1mm/s, amount of bend : 3 mm
Solderability	At least 95% of the terminal surface must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

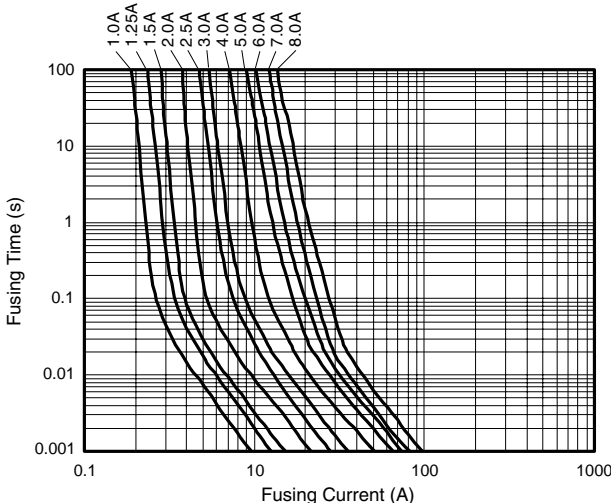
## ●Recommended Derating for Rated Current

- 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 SBF32 102AS (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 SBF32 selection.

Messrs\*\*\*

Kamaya Electric Co., Ltd.  
Hokkaido Research Center  
No.HR70906\*\*\*

### Verification of Chip Fuse Application

Item for examination: Series: SBF, Size: 3216, Style: AS, Option Code: AS

Operating condition: Application: 24 V.d.c., Rated Current: 1.0 A, Nominal: 4.5 A Max, Ambient: 70 deg.C Max, Recommended: 20 A

Item for recommend: Part No.: SBF3216AS, Size: 3216, Amp: 8 A, Fusing: 100k, 120k, Interrupting: 32Vd.c. 50A, Note: OK Standing Pulse 100k & 120k

Confirmation for Interrupting: Condition: Spec: Application: Voltage: 24Vd.c. 25Vd.c. OK, Current: 100k 50k OK

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

Basis of selection: #1: 10A Min., #2: 10A Max.

### Confirmations for Rush

Item: SBF, Size: 32, Style: AS, Option Code: AS, Note: OK Standing Pulse 100k times

Confirmation of Rush: #1: SBF, Size: 32, Amp: 8A, Fusing: 100k, 120k, Note: OK Standing Pulse 100k times, #2: SBF, Size: 32, Amp: 8A, Fusing: 100k, 120k, Note: OK Standing Pulse 100k times, #3: SBF, Size: 32, Amp: 8A, Fusing: 100k, 120k, Note: OK Standing Pulse 100k times, #4: SBF, Size: 32, Amp: 8A, Fusing: 100k, 120k, Note: OK Standing Pulse 100k times, #5: SBF, Size: 32, Amp: 8A, Fusing: 100k, 120k, Note: OK Standing Pulse 100k times

Recommended Item: SBF3216AS