

NEW

CHIP FUSES; RECTANGULAR TYPE

KAMAYA OHM

SBF32/Slow Blow

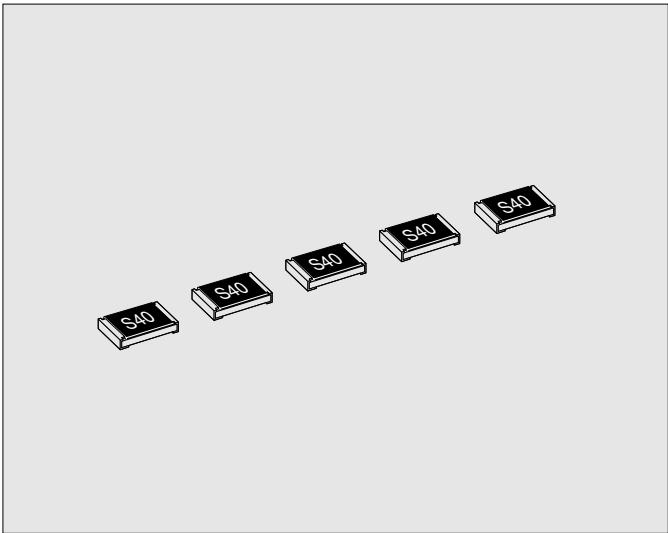
Features

- 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 Sb2O3≤900ppm
- 4. Certified UL, c-UL.
 - File No. : E176847

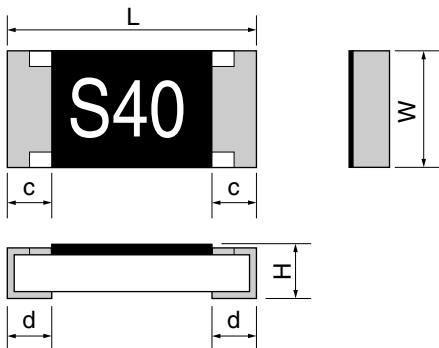


Major application

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



Dimension



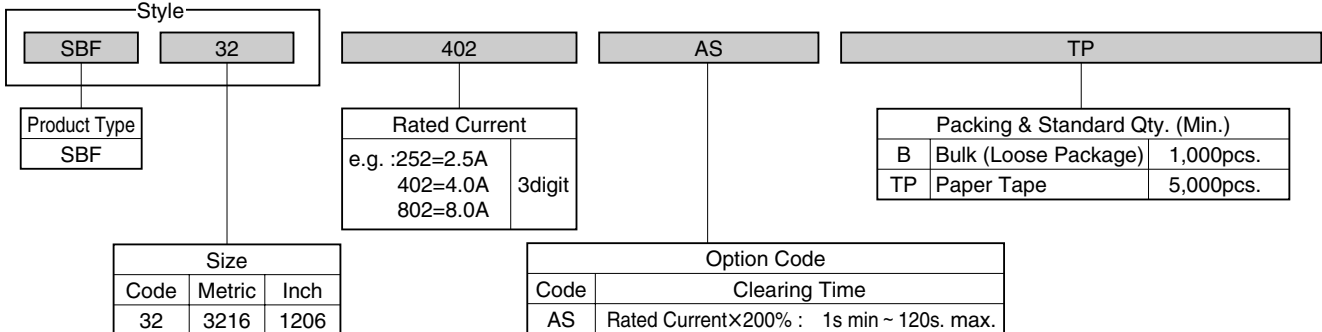
Current value is marked on the cover coating.
Please refer to Ratings table on next page.

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

●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

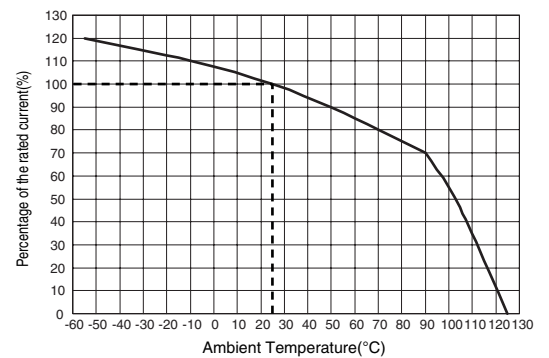
Nominal Derating ≤ 75% of Rated Current

• Temperature Derating

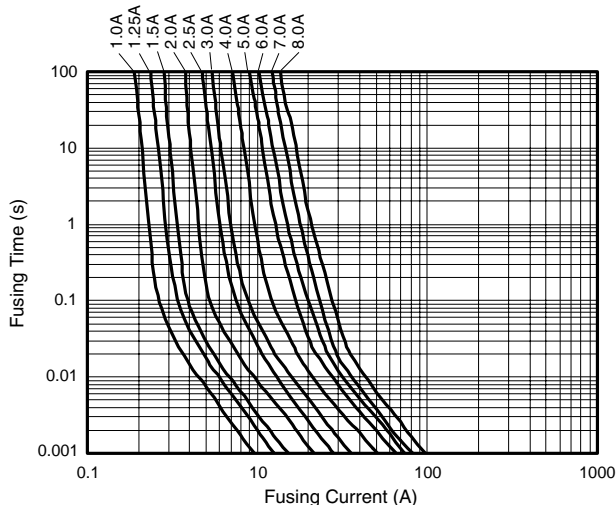
Please refer to the following graph regarding the current derating value for ambient temperature.

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***

Verification of Chip Fuse Application

Kamaya Electric Co., Ltd.
Hokkaido Research Center
No.HR7G05

Item for examination

Series	SBF	Operating condition	24 V d.c.
Size	3216 (mm)	Application	50 A
Option Code	AS	Nominal	4.5 A Max
		Ambient	70 deg C Max
		Rated	20 A

Item for recommend

Part	Size	Appl.	Fusing	Interrupting	Note
SBF32102AS	3216	8 A	250V, 125V	32Vd.c. 50A	OK Standing Pulse 100 k times

Confirmation for Interrupting

Condition	Spec.	Actual
Voltage	24Vd.c.	25Vd.c. OK
Current	4.5A	5.0A OK

Confirmation for Derating

Condition	Spec.	Actual
Nominal Derating	75%	75% OK
Temperature Derating	80%	80% OK

Basis of selection

Part	Size	Appl.
#1	3216	8 A Max
#2	3216	10 A Max

Confirmations for Rush

Item	Spec.	Actual	Note
#1	SBF	3216	8 A
#2	SBF	3216	8 A
#3	SBF	3216	8 A
#4	SBF	3216	8 A
#5	SBF	3216	8 A

Confirmation of Rush

Item	Spec.	Actual	Note
#1	SBF	3216	8 A
#2	SBF	3216	8 A
#3	SBF	3216	8 A
#4	SBF	3216	8 A
#5	SBF	3216	8 A

Recommended Item: SBF32102AS

Graph showing In-rush Current (A) versus Time (s) for SBF32102AS. The curve shows a peak current of approximately 10A at 0.001s, which then decays to the rated current of 8A.