

# FUSES GENERAL CATALOGUE

Edition 2017

We are protecting your comfort...

## OBSAH

### AUTOMOTIVE FUSE

1 Auto Plug-In Fuses .....	1
2 East Europe Auto Fuses .....	4
3 Auto Glass Tube Fuses .....	5
4 Auto Fuse Links .....	5
5 Maxi Auto Glass Tube Fuses .....	6
6 Auto Flat Fuses .....	7
7 Bolt In Auto Fuses .....	8
8 Glass Fuse Holder .....	9
9 Plug-In Fuse Holder .....	9
10 Instrument Lamp Holder .....	10
11 Automotive Lighter Plug .....	10
12 Automotive Tool Series .....	10

### ELECTRONIC FUSE

1 Micro Fuses .....	11
2 Glass Tube Fuses .....	12
3 Thermal Fuses .....	26
4 PTC Polymer Resettable Fuses .....	27
5 Fuse Clips .....	27
6 Fuse Holder .....	28
7 Button Cell .....	30
8 Battery Holder .....	31
9 Binding Post .....	34

# FUSES

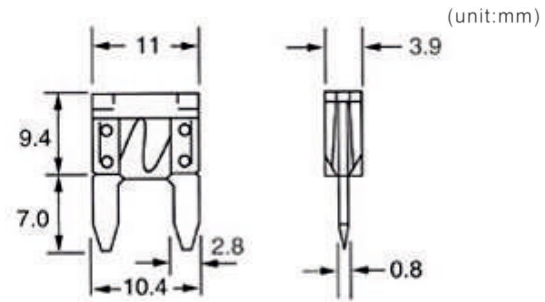
## MINI AUTO PLUG-IN FUSES



SM FUSE APF-190

Electrical Characteristics:

RATING	BLOWING TIME
110%	4hours Min
135%	0.75 to 1800s
200%	0.15 to 5s
350%	80ms to 300ms



### RATING

Type	Ampere Rating	Color
SM-FUSE-APF-190-2	2	grey
SM-FUSE-APF-190-3	3	violet
SM-FUSE-APF-190-4	4	pink
SM-FUSE-APF-190-5	5	orange
SM-FUSE-APF-190-7.5	7.5	brown
SM-FUSE-APF-190-10	10	red
SM-FUSE-APF-190-15	15	blue
SM-FUSE-APF-190-20	20	yellow
SM-FUSE-APF-190-25	25	clear
SM-FUSE-APF-190-30	30	green
SM-FUSE-APF-190-35	35	purple

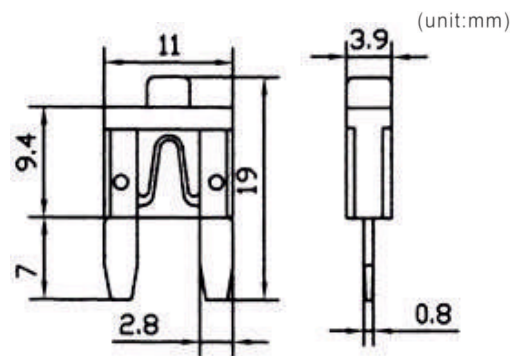
## MINI AUTO PLUG-IN FUSES (WITH INDICATING LAMP)



SM FUSE APF.L-190

Electrical Characteristics:

RATING	BLOWING TIME
110%	4hours Min
135%	0.75 to 1800s
200%	0.15 to 5s
350%	80ms to 300ms



### RATING

Type	Ampere Rating	Color
SM-FUSE-APF.L-190-2	2	grey
SM-FUSE-APF.L-190-3	3	violet
SM-FUSE-APF.L-190-4	4	pink
SM-FUSE-APF.L-190-5	5	orange
SM-FUSE-APF.L-190-7.5	7.5	brown
SM-FUSE-APF.L-190-10	10	red
SM-FUSE-APF.L-190-15	15	blue
SM-FUSE-APF.L-190-20	20	yellow
SM-FUSE-APF.L-190-25	25	clear
SM-FUSE-APF.L-190-30	30	green
SM-FUSE-APF.L-190-35	35	purple

# FUSES

## AUTO PLUG-IN FUSES

SM FUSE APF-191



SM FUSE APF-191A

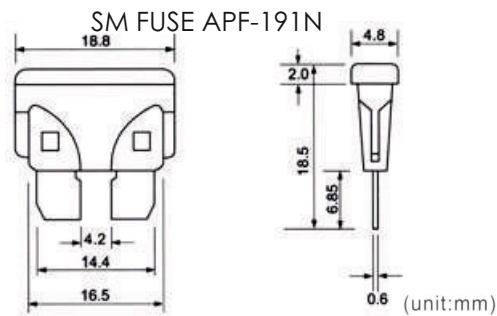
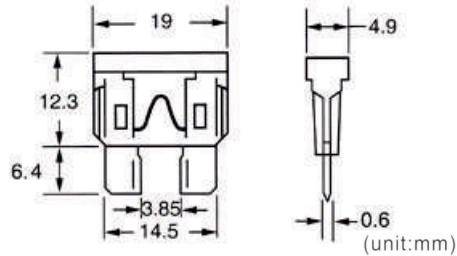


SM FUSE APF-191N



SM FUSE APF-191G

SM FUSE APF-191A SM FUSE APF-191G



### RATING

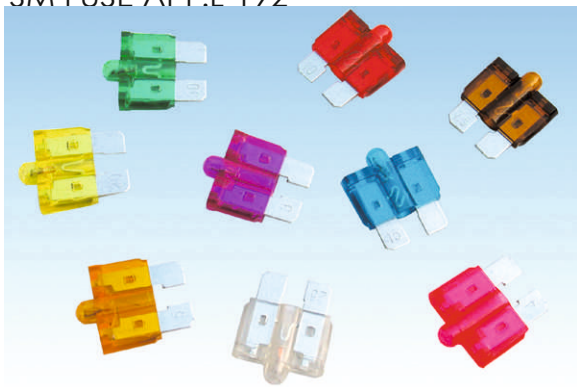
Type	Ampere Rating	Color
SM-Fuse-APF-191-2	2	grey
SM-Fuse-APF-191-3	3	violet
SM-Fuse-APF-191-4	4	pink
SM-Fuse-APF-191-5	5	orange
SM-Fuse-APF-191-7.5	7.5	brown
SM-Fuse-APF-191-10	10	red
SM-Fuse-APF-191-15	15	blue
SM-Fuse-APF-191-20	20	yellow
SM-Fuse-APF-191-25	25	clear
SM-Fuse-APF-191-30	30	green
SM-Fuse-APF-191-35	35	purple
SM-Fuse-APF-191-40	40	dark orange

### Electrical Characteristics:

RATING	BLOWING TIME
110%	4hours Min
135%	0.75 to 1800s
200%	0.15 to 5s
350%	80ms to 250ms

## AUTO PLUG-IN FUSES(WITH INDICATING LAMP)

SM FUSE APF.L-192

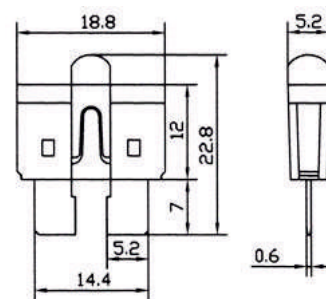


### Electrical Characteristics:

RATING	BLOWING TIME
110%	4hours Min
135%	0.75 to 1800s
200%	0.15 to 5s
350%	80ms to 250ms

Ampere Voltage: 12V

(unit:mm)



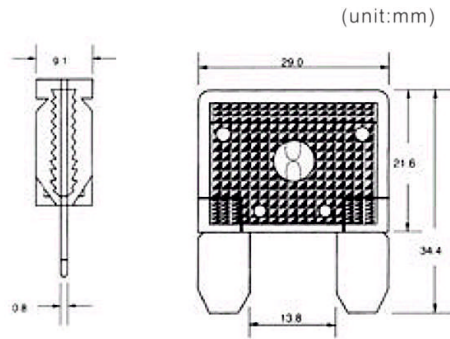
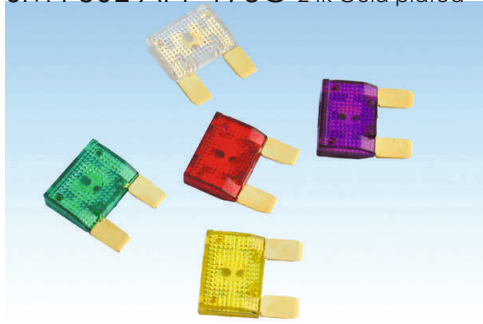
### RATING

Type	Ampere Rating	Color
SM-FUSE-APF.L-192-2	2	grey
SM-FUSE-APF.L-192-3	3	violet
SM-FUSE-APF.L-192-4	4	pink
SM-FUSE-APF.L-192-5	5	orange
SM-FUSE-APF.L-192-7.5	7.5	brown
SM-FUSE-APF.L-192-10	10	red
SM-FUSE-APF.L-192-15	15	blue
SM-FUSE-APF.L-192-20	20	yellow
SM-FUSE-APF.L-192-25	25	clear
SM-FUSE-APF.L-192-30	30	green
SM-FUSE-APF.L-192-35	35	purple
SM-FUSE-APF.L-192-40	40	dark orange

# FUSES

## MAXI AUTO PLUG-IN FUSES

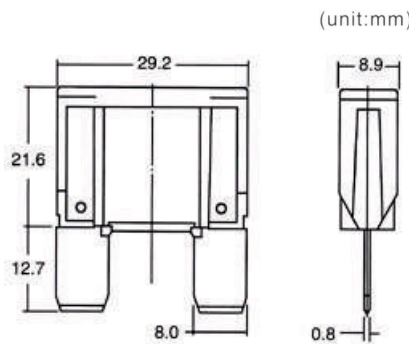
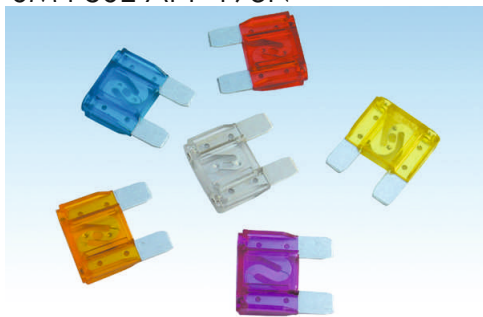
SM FUSE APF-193G 24k Gold plated



Electrical Characteristics:

RATING	BLOWING TIME
110%	100hours Min
135%	60 to 3600s
200%	4 to 60s
350%	80ms to 7s

SM FUSE APF-193N

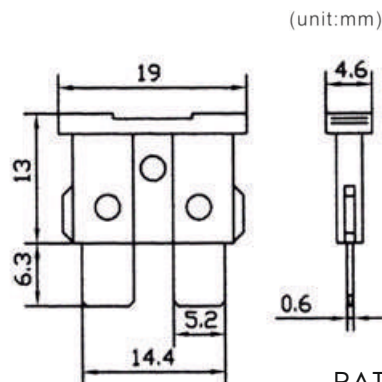


RATING

Ampere Rating	Ampere Voltage	Color
20	32	yellow
25	32	grey
30	32	green
35	32	brown
40	32	dark orange
50	32	red
60	32	blue
70	32	tan
80	32	clear
100	32	violet
120	32	purple

## EUROPE AUTO PLUG-IN FUSES

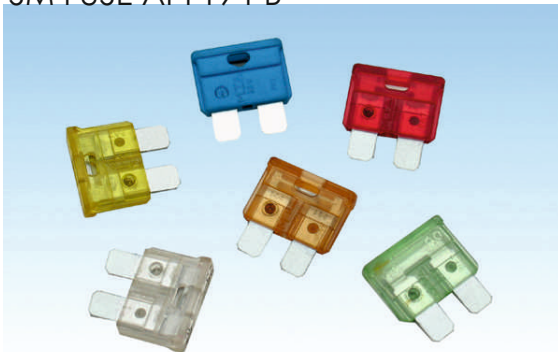
SM FUSE APF-194A



Electrical Characteristics:

RATING	BLOWING TIME
110%	4hours Min
135%	0.75 to 1800s
200%	0.15 to 5s
350%	80ms to 250ms

SM FUSE APF194-B



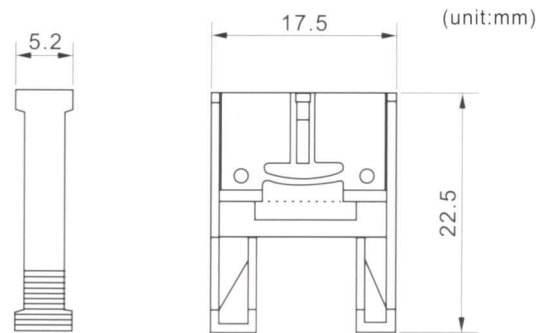
RATING

Ampere Rating	Ampere Voltage	Color
2	32	grey
3	32	violet
4	32	pink
5	32	orange
7.5	32	brown
10	32	red
15	32	blue
20	32	yellow
25	32	white
30	32	green
35	32	purple
40	32	dark orange

# FUSES

## VOLKSWAGEN AUTO FUSES

### SM FUSE ASF-195



#### RATING

Type	Ampere Rating	Color
SM-FUSE-ASF-195-10	10	red
SM-FUSE-ASF-195-15	15	blue
SM-FUSE-ASF-195-20	20	yellow
SM-FUSE-ASF-195-30	30	green

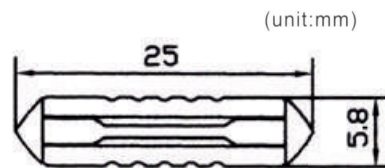
#### Electrical Characteristics:

RATING	BLOWING TIME
110%	4hours Min
135%	0.75 to 1800s
200%	0.15 to 5s
350%	80ms to 250ms

## EAST EUROPE AUTO FUSES

### SM FUSE GBC-196A

(Material: Plastic)

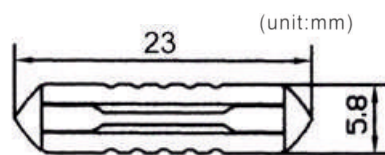


#### Electrical Characteristics:

150%	Min 1 hours
250%	Min 1 min

### SM FUSE GBC-196B

(Material: Ceramic)



#### RATING

Ampere Rating	Voltage Rating	Color
5	32	yellow
8	32	white
16	32	red
20	32	yellow
25	32	blue
30	32	green

# FUSES

## AUTO GLASS TUBE FUSES

### SM FUSE AGF



144 Ø 6.35X25mm

145 Ø 6.35X30mm

146 Ø 6.35X32mm

147 Ø 6.35X35mm

Electrical characteristics:

RATING	BLOWING TIME
110%	4 hours Min
135%	< 1 hours Max
200%	< 10 s Max

### RATING

Type	Ampere Rating	Ampere Voltage
SM-FUSE-AGF-5	5	32
SM-FUSE-AGF-10	10	32
SM-FUSE-AGF-15	15	32
SM-FUSE-AGF-20	20	32
SM-FUSE-AGF-25	25	32
SM-FUSE-AGF-30	30	32
SM-FUSE-AGF-35	35	32
SM-FUSE-AGF-40	40	32

## AUTO FUSE LINKS



SM FUSE ALF-197-FXX  
XX=Amp



SM FUSE ALF-197-SFXX  
XX=Amp



SM FUSE ALF-197-NFXX  
XX=Amp



SM FUSE ALF-197-LXX  
XX=Amp

Amp	Color	Amp	Color
20	white	60	yellow
30	pink	70	brown
40	green	80	black
50	red	100	blue

Amp	Color	Amp	Color
20	white	60	yellow
30	pink	70	brown
40	green	80	black
50	red	100	blue

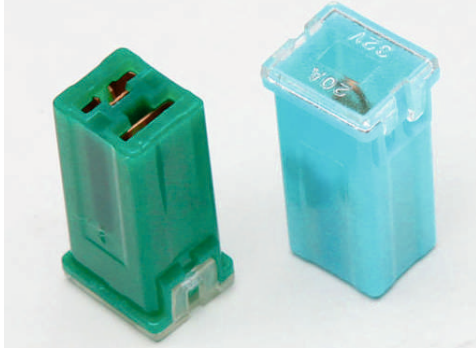
Amp	Color	Amp	Color
20	white	60	yellow
30	pink	70	brown
40	green	80	black
50	red	100	blue

Amp	Color	Amp	Color
20	white	60	yellow
30	pink	70	brown
40	green	80	black
50	red	100	blue

# FUSES

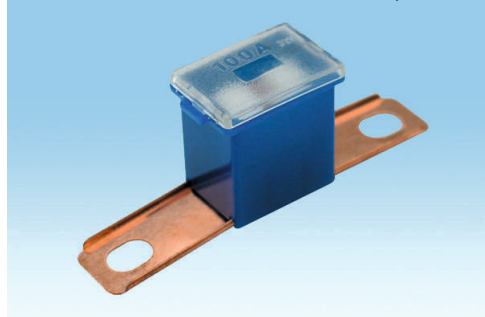
## AUTO FUSE LINKS

SM FUSE ALF-197-MFXX; XX=Amp



Amp	Color	Amp	Color
20	white	60	yellow
30	pink	70	brown
40	green	80	black
50	red	100	blue

SM FUSE ALF-197-SLXX; XX=Amp

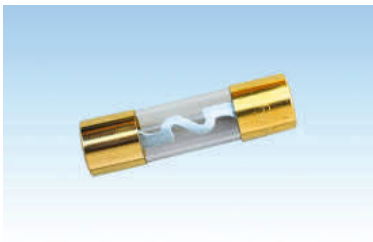


Amp	Color	Amp	Color
20	blue	60	white
30	green	70	brown
40	pink	80	black
50	red		

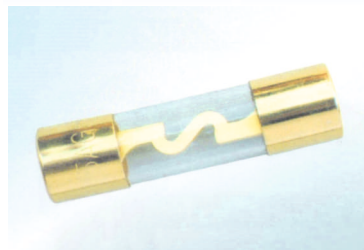
## MAXI AUTO GLASS TUBE FUSES



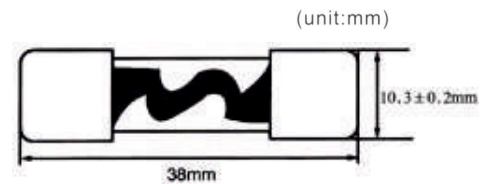
SM FUSE 5AG-140



SM FUSE 5AG-141



SM FUSE 5AG-142



Electrical characteristics:

RATING	BLOWING TIME
110%	4 hours Min
135%	1 hour Max
200%	10 s Max

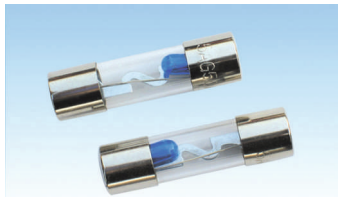
### RATING

Type	Ampere Rating	Voltage Rating
SM-FUSE-5AG-20	20	32
SM-FUSE-5AG-30	30	32
SM-FUSE-5AG-40	40	32
SM-FUSE-5AG-50	50	32
SM-FUSE-5AG-60	60	32
SM-FUSE-5AG-80	80	32

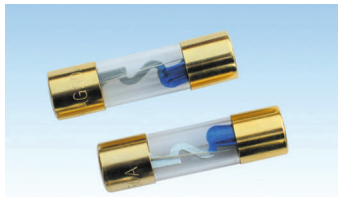


# FUSES

## MAXI AUTO GLASS TUBE FUSES(WITH INDICATING LAMP)



SM FUSE 5AG.L-140



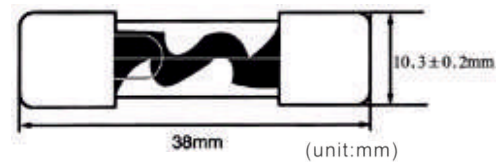
SM FUSE 5AG.L-141



SM FUSE 5AG.L-142

Electrical characteristics:

RATING	BLOWING TIME
110%	4 hours Min
135%	1 hour Max
200%	10 s Max

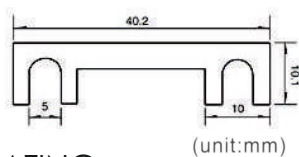


RATING

Type	Ampere Rating	Voltage Rating
SM-FUSE-5AG.L-20	20	32
SM-FUSE-5AG.L-30	30	32
SM-FUSE-5AG.L-40	40	32
SM-FUSE-5AG.L-50	50	32
SM-FUSE-5AG.L-60	60	32
SM-FUSE-5AG.L-80	80	32

## AUTO FLAT FUSES

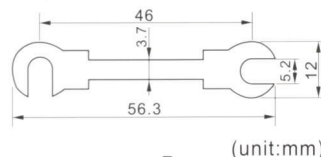
SM FUSE ABF-198E



RATING

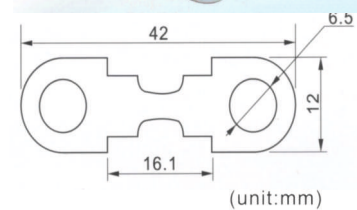
Type	Ampere Rating	Voltage Rating
SM-FUSE-ABF-198-30	30	32
SM-FUSE-ABF-198-40	40	32
SM-FUSE-ABF-198-45	45	32
SM-FUSE-ABF-198-50	50	32
SM-FUSE-ABF-198-60	60	32
SM-FUSE-ABF-198-80	80	32
SM-FUSE-ABF-198-110	110	32

SM FUSE ABF-198L



B

SM FUSE ABF-198N



Electrical Characteristics:

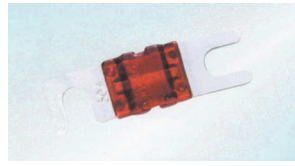
RATING	BLOWING TIME
110%	4 hours Min
200%	30 sec Max

# FUSES

## BOLT IN AUTO FUSES



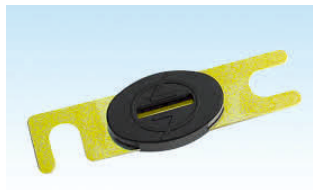
SM FUSE ABF-199N



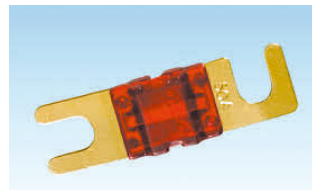
SM FUSE ABF-199-1.N

Electrical Characteristics:

RATING	BLOWING TIME
110%	4 hours Min
200%	30 sec Max



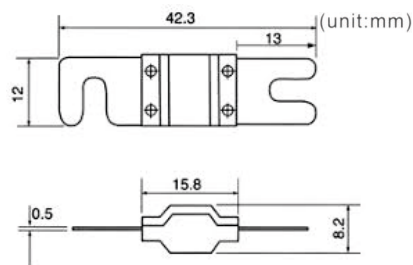
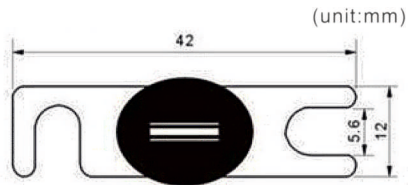
SM FUSE ABF-199G



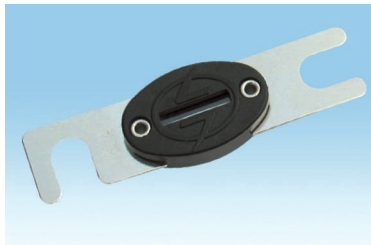
SM FUSE ABF-199-1.G

RATING

Ampere Rating	Voltage Rating
40	32
50	32
80	32
100	32
130	32
150	32
200	32



## BOLT IN AUTO FUSES



SM FUSE ABF-200N



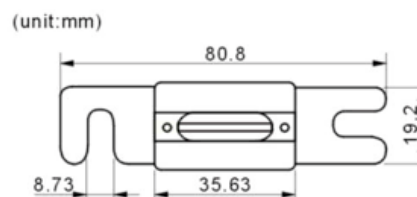
SM FUSE ABF-200G

Electrical Characteristics:

RATING	BLOWING TIME
110%	4 hours Min
200%	30 sec Max



SM FUSE ABF-200C



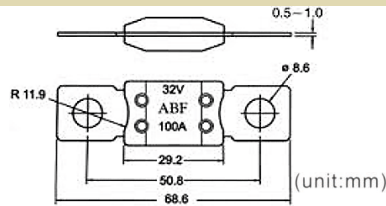
RATING

Ampere Rating	Voltage Rating
80	32
100	32
130	32
150	32
180	32
200	32
250	32
300	32

# FUSES

## BOLT IN AUTO FUSES

SM FUSE ABF-200EG



RATING

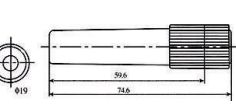
Ampere Rating	Voltage Rating
100	32
150	32
200	32
250	32

## GLASS TUBE FUSE HOLDER

SM FUSE FH-601

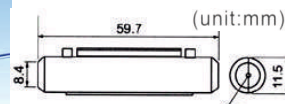


(unit:mm)



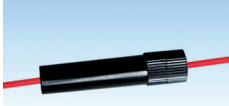
Suitable fuse: 10.3x38  
Housing: Bakelite  
Max Rating: 40A

SM FUSE FH-607

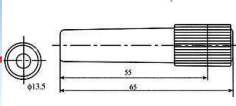


Suitable fuse: 6.35x30  
Housing: fire retardant  
Max Rating: 10A

SM FUSE FH-604

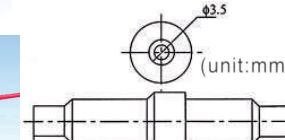


(unit:mm)



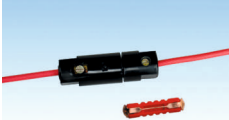
Suitable fuse: 6.35x32  
Housing: Bakelite  
Max Rating: 25A

SM FUSE FH-608

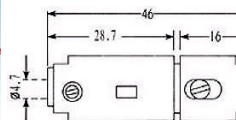


Suitable fuse: 6.35x30  
Housing: Bakelite  
Max Rating: 15A

SM FUSE FH-605

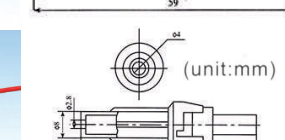


(unit:mm)



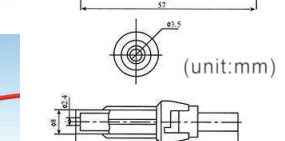
Suitable fuse: 6x25  
GBC fuse  
Housing: Bakelite  
Max Rating: 25A

SM FUSE FH-609



Suitable fuse: 6.35x30  
Housing: fire retardant  
Max Rating: 6A

SM FUSE FH-610



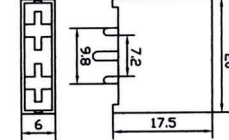
Suitable fuse: 6.35x30  
Housing: fire retardant  
Max Rating: 6A

## PLUG-IN FUSE HOLDER

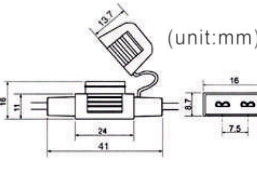
SM FUSE FH-611



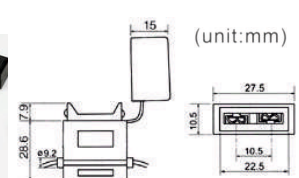
(unit:mm)



SM FUSE FH-616



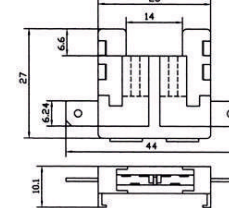
SM FUSE FH-619



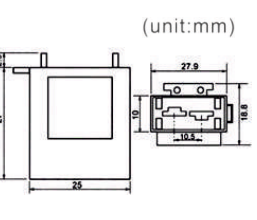
SM FUSE FH-612



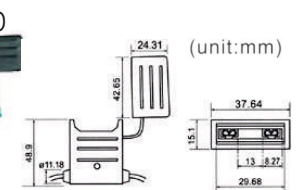
(unit:mm)



SM FUSE FH-617



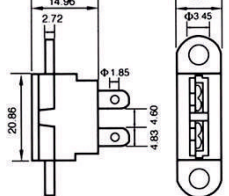
SM FUSE FH-620



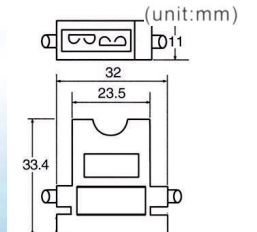
SM FUSE FH-613



(unit:mm)



SM FUSE FH-618



# FUSES

## INSTRUMENT LAMP HOLDER

SM FUSE LH-621



SM FUSE LH-622



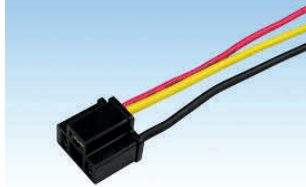
SM FUSE LH-623



SM FUSE LH-624



SM FUSE LH-625



## AUTOMOTIVE LIGHTER PLUG

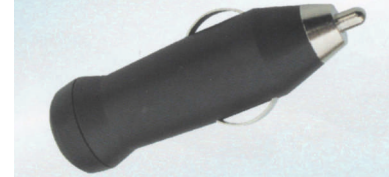
SM FUSE LP-629



SM FUSE LP-630



SM FUSE LP-631



SM FUSE LP-632



SM FUSE LP-633



SM FUSE LP-634



SM FUSE LP-635

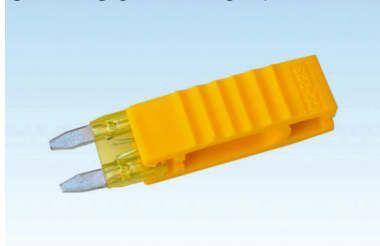


SM FUSE LP-636



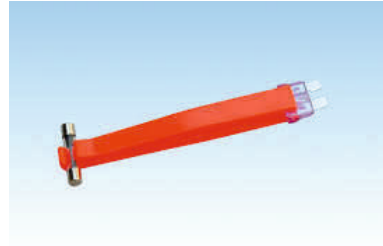
## AUTOMOTIVE TOOL SERIES

SM FUSE AT-647



MINI FUSE PULLER  
COLOR: YELLOW

SM FUSE AT-648



APF FUSE & GLASS FUSE  
SHORT-DUAL TYPE PULLER  
COLOR: ORANGE

SM FUSE AT-649

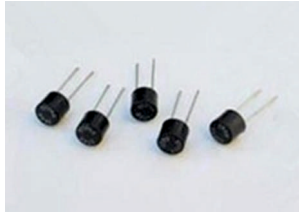


APF FUSE & GLASS FUSE  
SHORT-DUAL TYPE PULLER  
COLOR: BLACK

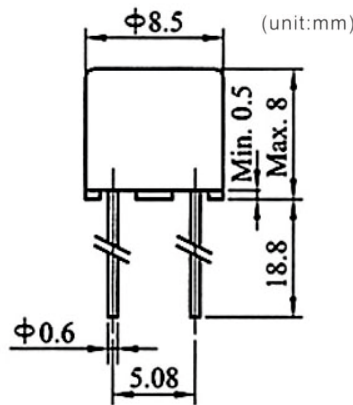
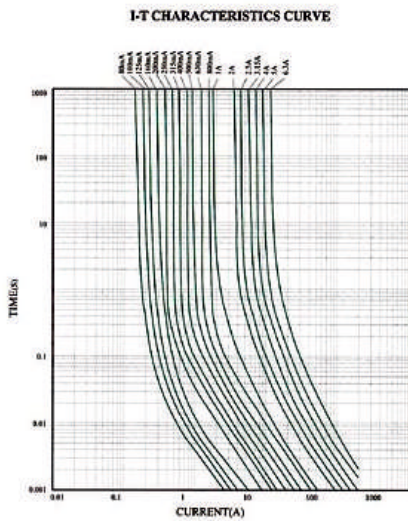
# FUSES

## MICRO FUSES

### MICRO FUSE(QUICK-ACTING)



SM FUSE FBMF1001



Electrical characteristics:

RATING	BLOWING TIME	
2.1 In	Max	30min
2.75 In	Min	10ms
	Max	3sec
4 In	Min	3ms
	Max	300ms
10 In	Max	20ms

INTERRUPTING RATING:  
CCC/SEMKO/VDE: 35A OR 10 In  
WHICHEVER IS GREATER  
UR/CSA/T:100A 250V AC

CODING KEY:

SM FUSE FBMF1001-**Y**-F(fast) or S(slow)

SM FUSE FBMF1002-**Y**-F(fast) or S(slow)

Y=Ampere Rating (1=100mA)

Y	Ampere Rating	Voltage Rating	Disjunction Power
1	100mA	H/L	H/L
2	125mA	H/L	H/L
3	160mA	H/L	H/L
4	200mA	H/L	H/L
5	250mA	H/L	H/L
6	315mA	H/L	H/L
7	400mA	H/L	H/L
8	500mA	H/L	H/L
9	630mA	H/L	H/L
10	800mA	H/L	H/L
11	1A	H/L	H/L
12	1.25A	H/L	H/L
13	2.6A	H/L	H/L
14	2A	H/L	H/L
15	2.5A	H/L	H/L
16	3A	H/L	H/L
17	3.15A	H/L	H/L
18	4A	H/L	H/L
19	5A	H/L	H/L
20	6.3A	H/L	H/L

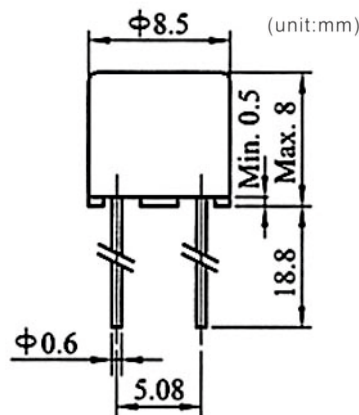
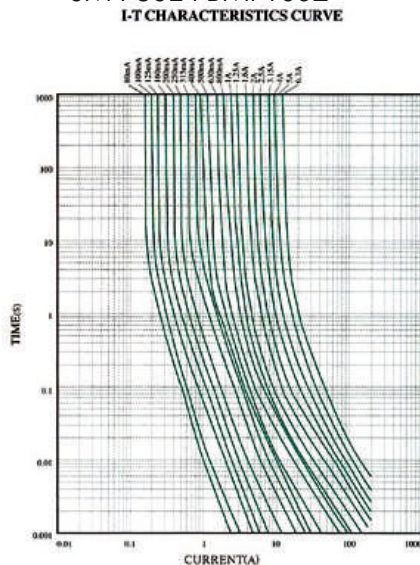
Ampere Voltage:  
H Denotes For 250V  
L Denotes For 125V

Disjunction Power:  
H Denotes For High Disjunction  
L Denotes For Low Disjunction

### MICRO FUSE(TIME-LAG)



SM FUSE FBMF1002



Electrical characteristics:

RATING	BLOWING TIME	
2.1 In	Max	2min
2.75 In	Min	400ms
	Max	10sec
4 In	Min	150ms
	Max	3sec
10 In	Max	150ms

INTERRUPTING RATING:  
CCC/SEMKO/VDE: 35A OR 10 In  
WHICHEVER IS GREATER  
UR/CSA/T:100A 250V AC

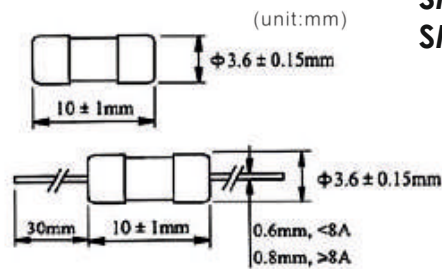
# FUSES

## Ø 3.6 x 10 Glass Tube Fuses

### GLASS TUBE FUSE (FAST-BLOW)



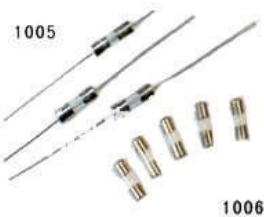
SM FUSE FBMGTF(1003,1004)



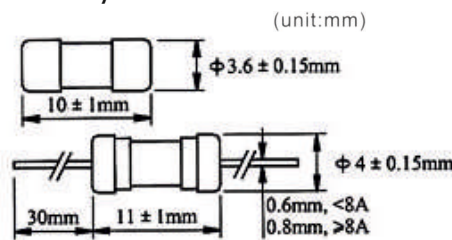
Electrical characteristics:

RATING		BLOWING TIME
1 In	Min	4h
2 In	Max	5s
2.75 In	Max	300ms
4 In	Max	30ms
10 In	Max	4ms

### GLASS TUBE FUSE (FAST-BLOW)

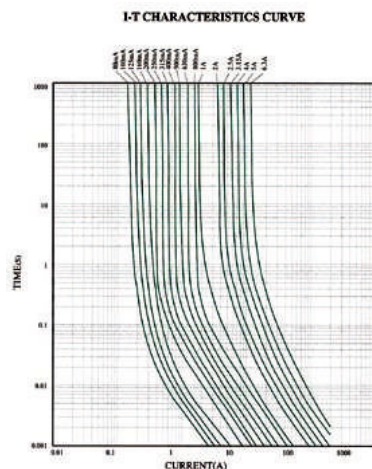


SM FUSE FBMGTF(1005,1006)



Electrical characteristics:

RATING		BLOWING TIME
1 In	Min	4h
2 In	Max	5s
2.75 In	Max	300ms
4 In	Max	30ms
10 In	Max	4ms



INTERRUPTING RATING:  
50 amperes at 125AC (100mA-15A)  
50 amperes at 250V AC (100mA-15A)

CODING KEY:

**SM FUSE FBMF1003-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1004-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1005-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1006-Y-F(fast) or S(slow)**  
 Y=Ampere Rating (1=100mA)

Y	Ampere Rating	mv Voltage Drop	Voltage Rating	Disjunction Power
1	100mA	1750	H/L	H/L
2	125mA	1500	H/L	H/L
3	150mA	1500	H/L	H/L
4	160mA	1500	H/L	H/L
5	200mA	1500	H/L	H/L
6	250mA	1000	H/L	H/L
7	300mA	1000	H/L	H/L
8	315mA	1000	H/L	H/L
9	350mA	1000	H/L	H/L
10	400mA	1000	H/L	H/L
11	500mA	1000	H/L	H/L
12	600mA	900	H/L	H/L
13	700mA	500	H/L	H/L
14	750mA	500	H/L	H/L
15	800mA	275	H/L	H/L
16	1A	275	H/L	H/L
17	1.2A	275	H/L	H/L
18	1.25A	275	H/L	H/L
19	1.5A	275	H/L	H/L
20	1.6A	275	H/L	H/L
21	1.8A	275	H/L	H/L
22	2A	250	H/L	H/L
23	2.5A	250	H/L	H/L
24	3A	250	H/L	H/L
25	3.15A	250	H/L	H/L
26	3.5A	250	H/L	H/L
27	4A	225	H/L	H/L
28	5A	225	H/L	H/L
29	6A	225	H/L	H/L
30	6.3A	200	H/L	H/L
31	7A	200	H/L	H/L
32	8A	200	H/L	H/L
33	10A	200	H/L	H/L
34	12A	180	H/L	H/L
35	15A	180	H/L	H/L

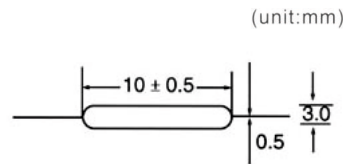
Ampere Voltage:  
H Denotes For 250V  
L Denotes For 125V

Disjunction Power:  
H Denotes For High Disjunction  
L Denotes For Low Disjunction

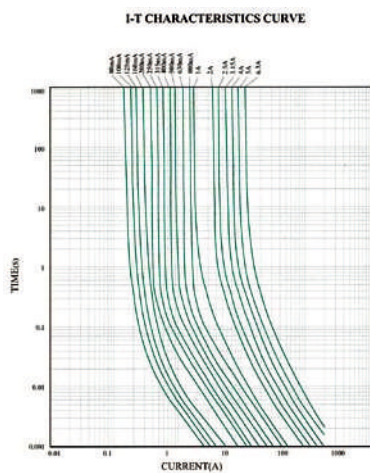
# FUSES

## Ø 3.0x10 Glass Tube Fuses

### GLASS TUBE FUSE (FAST-BLOW)



SM FUSE FBMGTF(1007,1008)

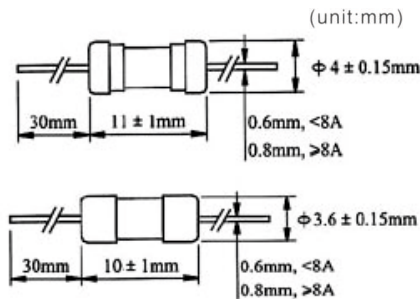


Electrical characteristics:

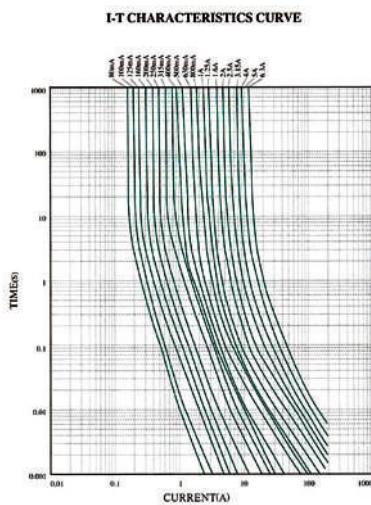
RATING		BLOWING TIME
1 In	Min	4h
2 In	Max	5s
2.75 In	Max	300ms
4 In	Max	30ms
10 In	Max	4ms

INTERRUPTING RATING:  
50 amperes at 125V AC (250mA-10A)  
50 amperes at 250V AC (250mA-10A)  
CCC/VDE/SEMKO

### GLASS TUBE FUSE (SLOW-BLOW)



SM FUSE FBMGTF(1009,1010)



Electrical characteristics:

RATING		BLOWING TIME
2.1 In	Max	2min
2.75 In	Min	400ms
	Max	10sec
4 In	Min	150ms
	Max	3sec
10 In	Min	20ms
	Max	150ms

CODING KEY:

**SM FUSE FBMF1007-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1008-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1009-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1010-Y-F(fast) or S(slow)**

Y=Ampere Rating (I=100mA)

Y	Ampere Rating	mv Voltage Drop	Voltage Rating	Disjunction Power
1	100mA	1750	H/L	H/L
2	125mA	1500	H/L	H/L
3	150mA	1500	H/L	H/L
4	160mA	1500	H/L	H/L
5	200mA	1500	H/L	H/L
6	250mA	1000	H/L	H/L
7	300mA	1000	H/L	H/L
8	315mA	1000	H/L	H/L
9	350mA	1000	H/L	H/L
10	400mA	1000	H/L	H/L
11	500mA	1000	H/L	H/L
12	600mA	900	H/L	H/L
13	700mA	500	H/L	H/L
14	750mA	500	H/L	H/L
15	800mA	275	H/L	H/L
16	1A	275	H/L	H/L
17	1.2A	275	H/L	H/L
18	1.25A	275	H/L	H/L
19	1.5A	275	H/L	H/L
20	1.6A	275	H/L	H/L
21	1.8A	275	H/L	H/L
22	2A	250	H/L	H/L
23	2.5A	250	H/L	H/L
24	3A	250	H/L	H/L
25	3.15A	250	H/L	H/L
26	3.5A	250	H/L	H/L
27	4A	225	H/L	H/L
28	5A	225	H/L	H/L
29	6A	225	H/L	H/L
30	6.3A	200	H/L	H/L
31	7A	200	H/L	H/L
32	8A	200	H/L	H/L
33	10A	200	H/L	H/L
34	12A	180	H/L	H/L
35	15A	180	H/L	H/L

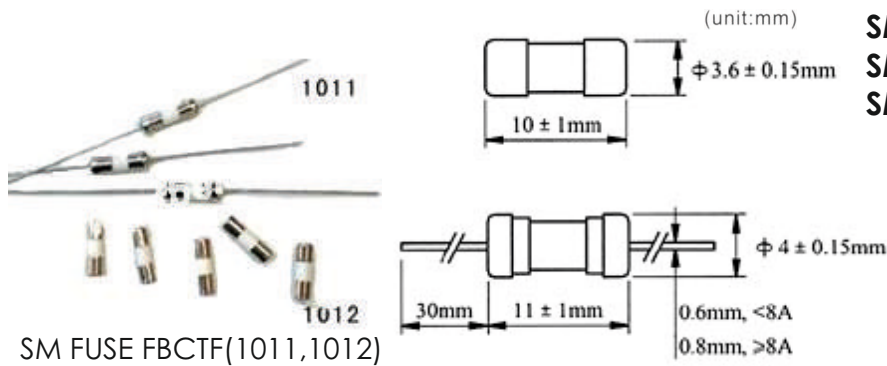
Ampere Voltage:  
H Denotes For 250V  
L Denotes For 125V

Disjunction Power:  
H Denotes For High Disjunction  
L Denotes For Low Disjunction

# FUSES

## Ø 3.6x10 Ceramic Tube Fuses

### CERAMIC TUBE FUSE (FAST-BLOW)



SM FUSE FBCTF(1011,1012)

INTERRUPTING RATING:  
50 amperes at 125V  
(100mA-15A)  
50 amperes at 250V  
(100mA-15A)  
UL/CSA/T-MARK

Electrical Characteristics:

RATING	BLOWING TIME
100%	4 hours Min
200%	60 sec Max

CODING KEY:

**SM FUSE FBMF1011-Y-F(fast) or S(slow)**

**SM FUSE FBMF1012-Y-F(fast) or S(slow)**

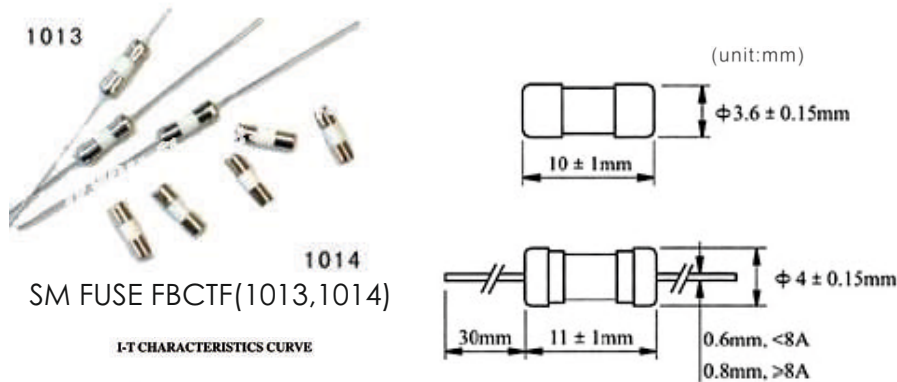
**SM FUSE FBMF1013-Y-F(fast) or S(slow)**

**SM FUSE FBMF1014-Y-F(fast) or S(slow)**

Y=Ampere Rating (1=100mA)

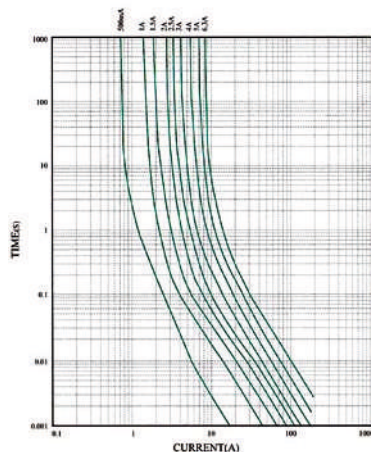
Y	Ampere Rating	Voltage Rating	Disjunction Power
1	100mA	H/L	H/L
2	125mA	H/L	H/L
3	150mA	H/L	H/L
4	160mA	H/L	H/L
5	200mA	H/L	H/L
6	250mA	H/L	H/L
7	300mA	H/L	H/L
8	315mA	H/L	H/L
9	350mA	H/L	H/L
10	400mA	H/L	H/L
11	500mA	H/L	H/L
12	600mA	H/L	H/L
13	700mA	H/L	H/L
14	750mA	H/L	H/L
15	800mA	H/L	H/L
16	1A	H/L	H/L
17	1.2A	H/L	H/L
18	1.25A	H/L	H/L
19	1.5A	H/L	H/L
20	1.6A	H/L	H/L
21	1.8A	H/L	H/L
22	2A	H/L	H/L
23	2.5A	H/L	H/L
24	3A	H/L	H/L
25	3.15A	H/L	H/L
26	3.5A	H/L	H/L
27	4A	H/L	H/L
28	5A	H/L	H/L
29	6A	H/L	H/L
30	6.3A	H/L	H/L
31	7A	H/L	H/L
32	8A	H/L	H/L
33	10A	H/L	H/L
34	12A	H/L	H/L
35	15A	H/L	H/L

### CERAMIC TUBE FUSE (SLOW-BLOW)



SM FUSE FBCTF(1013,1014)

I-T CHARACTERISTICS CURVE



Electrical Characteristics:

RATING	BLOWING TIME
100%	4hours Min
200%	1-60 sec

Ampere Voltage:

H Denotes For 250V

L Denotes For 125V

Disjunction Power:

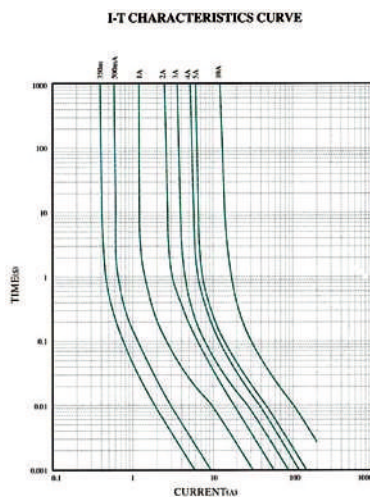
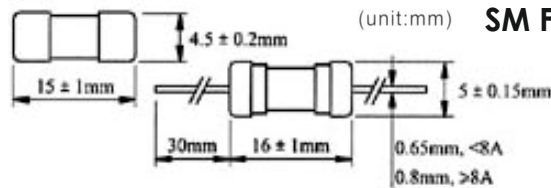
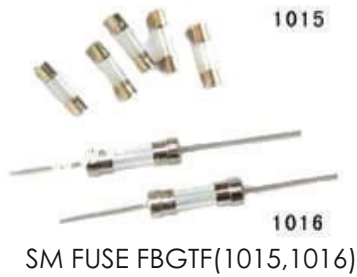
H Denotes For High Disjunction

L Denotes For Low Disjunction



# FUSES

## Ø 4.5x15 Glass Tube Fuses GLASS TUBE FUSE (FAST-BLOW)

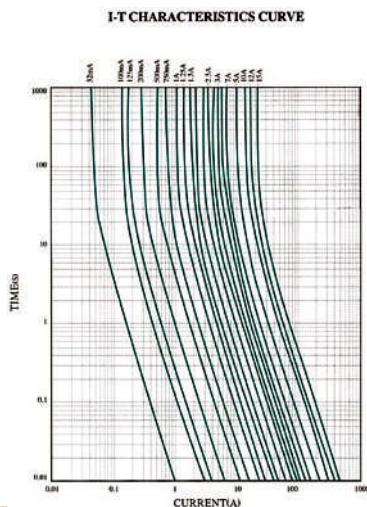
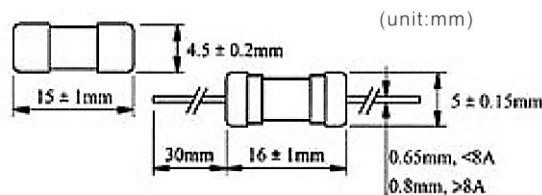


Electrical Characteristics:

RATING	BLOWING TIME
100%	4 hours Min
135%	1 hour max
200%	5 sec Max

INTERRUPTING RATING:  
50 amperes at 300V AC (300mA-5A)  
50 amperes at 250V AC (300mA-2.25A)  
100 amperes at 250V AC (2.25A-5A)  
100 amperes at 250V AC (1A-15A) MITI TYPE A  
500 amperes at 125V AC (1A-15A) MITI TYPE A  
UL/CSA/T-MARK

## GLASS TUBE FUSE (SLOW-BLOW)



Electrical Characteristics:

RATING	BLOWING TIME
100%	4 hours Min
135%	1 hour max
200%	120 sec Max

### CODING KEY:

SM FUSE FBMF1015-**Y**-F(fast) or S(slow)  
SM FUSE FBMF1016-**Y**-F(fast) or S(slow)  
SM FUSE FBMF1017-**Y**-F(fast) or S(slow)  
SM FUSE FBMF1018-**Y**-F(fast) or S(slow)  
**Y=Ampere Rating (1=100mA)**

Y	Ampere Rating	Voltage Rating	Disjunction Power
1	100mA	H/L	H/L
2	125mA	H/L	H/L
3	150mA	H/L	H/L
4	160mA	H/L	H/L
5	200mA	H/L	H/L
6	250mA	H/L	H/L
7	300mA	H/L	H/L
8	315mA	H/L	H/L
9	350mA	H/L	H/L
10	400mA	H/L	H/L
11	500mA	H/L	H/L
12	600mA	H/L	H/L
13	700mA	H/L	H/L
14	750mA	H/L	H/L
15	800mA	H/L	H/L
16	1A	H/L	H/L
17	1.2A	H/L	H/L
18	1.25A	H/L	H/L
19	1.5A	H/L	H/L
20	1.6A	H/L	H/L
21	1.8A	H/L	H/L
22	2A	H/L	H/L
23	2.5A	H/L	H/L
24	3A	H/L	H/L
25	3.15A	H/L	H/L
26	3.5A	H/L	H/L
27	4A	H/L	H/L
28	5A	H/L	H/L
29	6A	H/L	H/L
30	6.3A	H/L	H/L
31	7A	H/L	H/L
32	8A	H/L	H/L
33	10A	H/L	H/L
34	12A	H/L	H/L
35	15A	H/L	H/L

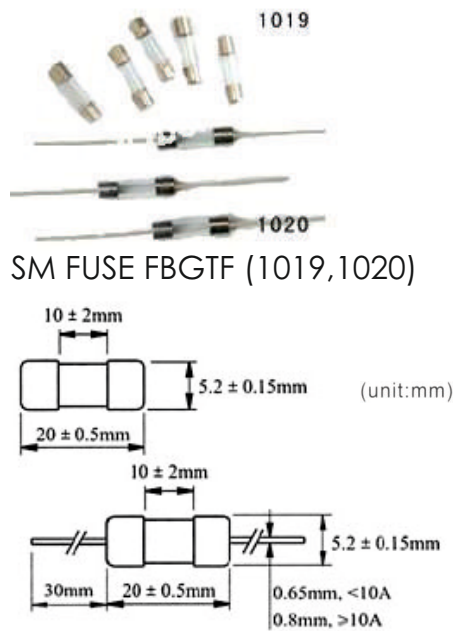
Ampere Voltage:  
H Denotes For 250V  
L Denotes For 125V

Disjunction Power:  
H Denotes For High Disjunction  
L Denotes For Low Disjunction

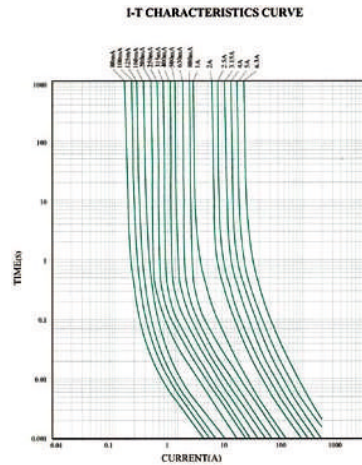
# FUSES

## Ø 5.2x20 Glass Tube Fuses

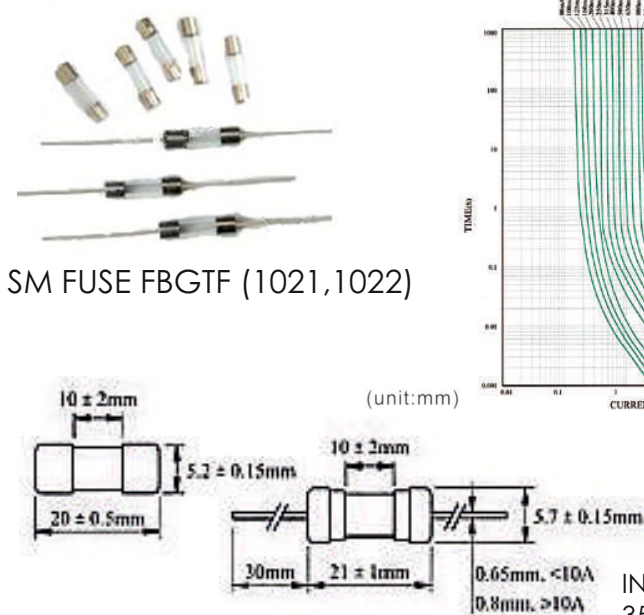
### GLASS TUBE FUSE(FAST-BLOW)



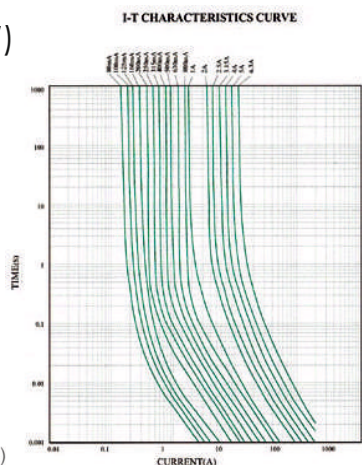
SM FUSE FBGTF (1019,1020)



### GLASS TUBE FUSE(FAST-BLOW)



SM FUSE FBGTF (1021,1022)



### CODINNG KEY:

**SM FUSE FBMF1019-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1020-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1021-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1022-Y-F(fast) or S(slow)**  
 Y=Ampere Rating (1=100mA)

Y	Ampere Rating	mv Voltage Drop	Voltage Rating	Disjunction Power
1	100mA	3500	H/L	H/L
2	125mA	2100	H/L	H/L
3	150mA	2100	H/L	H/L
4	160mA	2000	H/L	H/L
5	200mA	1700	H/L	H/L
6	250mA	1300	H/L	H/L
7	300mA	1300	H/L	H/L
8	315mA	1300	H/L	H/L
9	350mA	1300	H/L	H/L
10	400mA	1200	H/L	H/L
11	500mA	650	H/L	H/L
12	600mA	650	H/L	H/L
13	700mA	600	H/L	H/L
14	750mA	240	H/L	H/L
15	800mA	200	H/L	H/L
16	1A	200	H/L	H/L
17	1.2A	200	H/L	H/L
18	1.25A	200	H/L	H/L
19	1.5A	200	H/L	H/L
20	1.6A	190	H/L	H/L
21	1.8A	190	H/L	H/L
22	2A	170	H/L	H/L
23	2.5A	170	H/L	H/L
24	3A	150	H/L	H/L
25	3.15A	150	H/L	H/L
26	3.5A	150	H/L	H/L
27	4A	130	H/L	H/L
28	5A	130	H/L	H/L
29	6A	130	H/L	H/L
30	6.3A	130	H/L	H/L
31	7A	120	H/L	H/L
32	8A	100	H/L	H/L
33	10A	100	H/L	H/L
34	12A	100	H/L	H/L
35	15A	100	H/L	H/L

INTERRUPTING RATING:  
 35A OR 10In WHICHEVER IS GREATER  
 CCC/VDE/SEMKO

Ampere Voltage:  
 H Denotes For 250V  
 L Denotes For 125V

### Electrical Characteristics:

RATING	2.1 In		2.75 In		4 In		10 In
	Max	Min	Max	Min	Max	Max	
Blowing Time	32 mA ~ 100mA	30 min	10ms	500ms	3ms	100ms	20ms
	100mA ~ 6.3 A	30 min	50ms	2s	10ms	300ms	20ms

Disjunction Power:  
 H Denotes For High Disjunction  
 L Denotes For LoW Disjunction

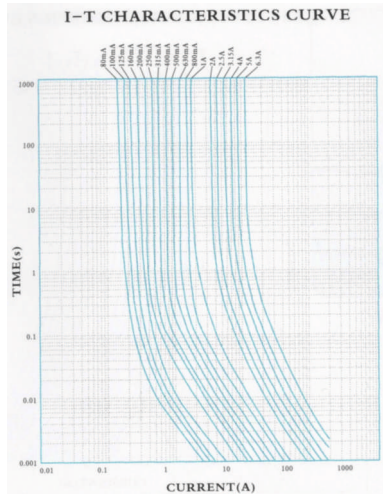
# FUSES

## Ø 5.2x20 Glass Tube Fuses

### GLASS TUBE FUSE(SLOW-BLOW)



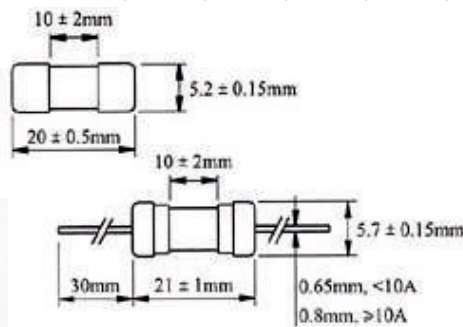
SM FUSE FBGTF(1023,1024)



### Electrical Characteristics:

	RATING	2.1 In		2.75 In		4 In		10 In
		Max	Min	Max	Min	Max	Max	
Blowing Time	32 mA ~ 100mA	20 min	10ms	500ms	3ms	100ms	20ms	
	100mA ~ 6.3 A	30 min	50ms	2s	10ms	300ms	20ms	

(unit:mm)



### CODING KEY:

**SM FUSE FBMF1023-Y-F(fast) or S(slow)**

**SM FUSE FBMF1024-Y-F(fast) or S(slow)**

**SM FUSE FBMF1025-Y-F(fast) or S(slow)**

**SM FUSE FBMF1026-Y-F(fast) or S(slow)**

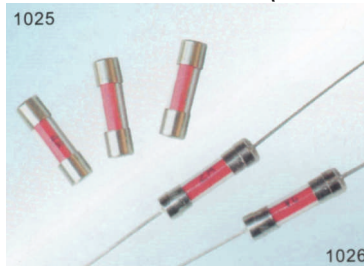
Y=Ampere Rating (I=100mA)

Ampere Voltage:  
H Denotes For 250V  
L Denotes For 125V

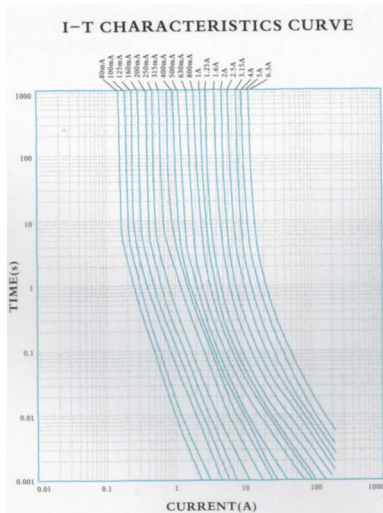
Disjunction Power:  
H Denotes For High Disjunction  
L Denotes For Low Disjunction

Y	Ampere Rating	mv Voltage Drop	Voltage Rating	Disjunction Power
1	100mA	3500	H/L	H/L
2	125mA	2100	H/L	H/L
3	150mA	2100	H/L	H/L
4	160mA	2000	H/L	H/L
5	200mA	1700	H/L	H/L
6	250mA	1400	H/L	H/L
7	300mA	1300	H/L	H/L
8	315mA	1300	H/L	H/L
9	350mA	1300	H/L	H/L
10	400mA	1200	H/L	H/L
11	500mA	1000	H/L	H/L
12	600mA	650	H/L	H/L
13	700mA	650	H/L	H/L
14	750mA	600	H/L	H/L
15	800mA	240	H/L	H/L
16	1A	200	H/L	H/L
17	1.2A	200	H/L	H/L
18	1.25A	200	H/L	H/L
19	1.5A	200	H/L	H/L
20	1.6A	190	H/L	H/L
21	1.8A	190	H/L	H/L
22	2A	170	H/L	H/L
23	2.5A	170	H/L	H/L
24	3A	150	H/L	H/L
25	3.15A	150	H/L	H/L
26	3.5A	150	H/L	H/L
27	4A	130	H/L	H/L
28	5A	130	H/L	H/L
29	6A	130	H/L	H/L
30	6.3A	130	H/L	H/L
31	7A	120	H/L	H/L
32	8A	100	H/L	H/L
33	10A	100	H/L	H/L
34	12A	100	H/L	H/L
35	15A	100	H/L	H/L

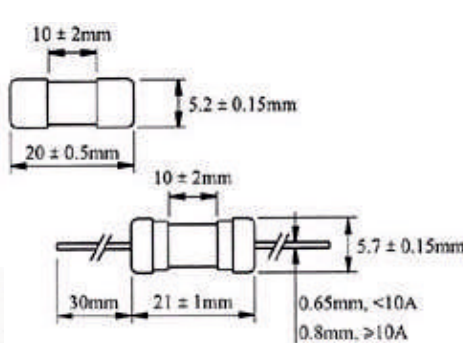
### GLASS TUBE FUSE(SLOW-BLOW)



SM FUSE FBGTF (1025,1026)



(unit:mm)



INTERRUPTING RATING:  
35A OR 10 In WHICHEVER IS  
GREATER  
CCC/VDE/SEMKO

### Electrical Characteristics:

	RATING	2.1 In		2.75 In		4 In		10 In
		Max	Min	Max	Min	Max	Max	
Blowing Time	32 mA ~ 100mA	2 min	200ms	10s	40ms	3s	10ms	20ms
	100mA ~ 6.3 A	2 min	600ms	10s	150ms	3s	20ms	20ms
	8A ~ 15A	30min	600ms	10s	150ms	3s	20ms	300ms

# FUSES

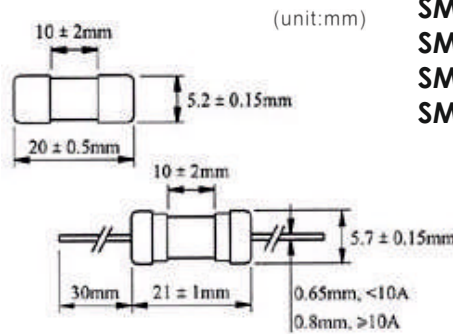
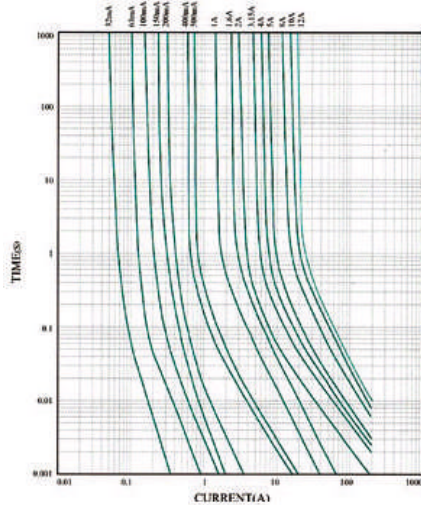
## Ø 5.2x20 Glass Tube Fuses

### GLASS TUBE FUSE(MEDIUM SLOW-BLOW)



SM FUSE FBGTF (1027,1028)

I-T CHARACTERISTICS CURVE



Electrical Characteristics:

RATING	BLOWING TIME
130%	1 hour Min
160%	1 hour Max
200%	120 sec Max

INTERRUPTING RATING:

500 amperes at 125V AC (1A-15A)  
100 amperes at 250V AC (1A-15A)  
T-MARK

CODING KEY:

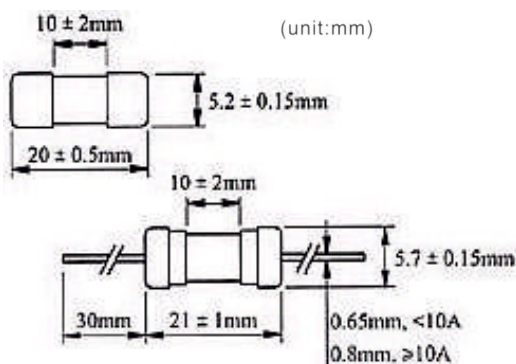
**SM FUSE FBMF1027-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1028-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1029-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1030-Y-F(fast) or S(slow)**  
Y=Ampere Rating (1=100mA)

Y	Ampere Rating	Voltage Rating	Disjunction Power
1	100mA	H/L	H/L
2	125mA	H/L	H/L
3	150mA	H/L	H/L
4	160mA	H/L	H/L
5	200mA	H/L	H/L
6	250mA	H/L	H/L
7	300mA	H/L	H/L
8	315mA	H/L	H/L
9	350mA	H/L	H/L
10	400mA	H/L	H/L
11	500mA	H/L	H/L
12	600mA	H/L	H/L
13	700mA	H/L	H/L
14	750mA	H/L	H/L
15	800mA	H/L	H/L
16	1A	H/L	H/L
17	1.2A	H/L	H/L
18	1.25A	H/L	H/L
19	1.5A	H/L	H/L
20	1.6A	H/L	H/L
21	1.8A	H/L	H/L
22	2A	H/L	H/L
23	2.5A	H/L	H/L
24	3A	H/L	H/L
25	3.15A	H/L	H/L
26	3.5A	H/L	H/L
27	4A	H/L	H/L
28	5A	H/L	H/L
29	6A	H/L	H/L
30	6.3A	H/L	H/L
31	7A	H/L	H/L
32	8A	H/L	H/L
33	10A	H/L	H/L
34	12A	H/L	H/L
35	15A	H/L	H/L

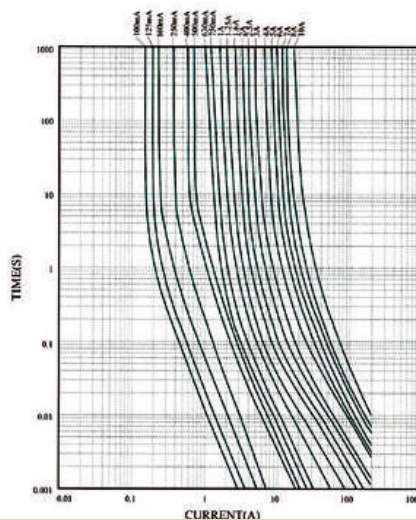
### GLASS TUBE FUSE(MEDIUM FAST-BLOW)



SM FUSE FBGTF (1029,1030)



I-T CHARACTERISTICS CURVE



Electrical Characteristics:

RATING	BLOWING TIME
130%	1 hour Min
160%	1 hour Max
200%	120 sec Max

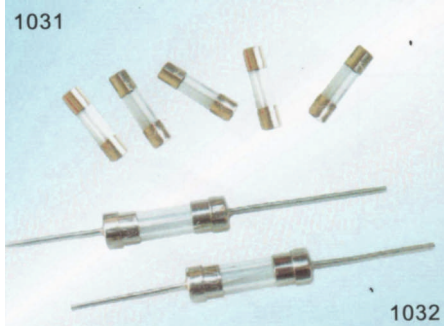
Ampere Voltage:  
H Denotes For 250V  
L Denotes For 125V

Disjunction Power:  
H Denotes For High Disjunction  
L Denotes For Low Disjunction

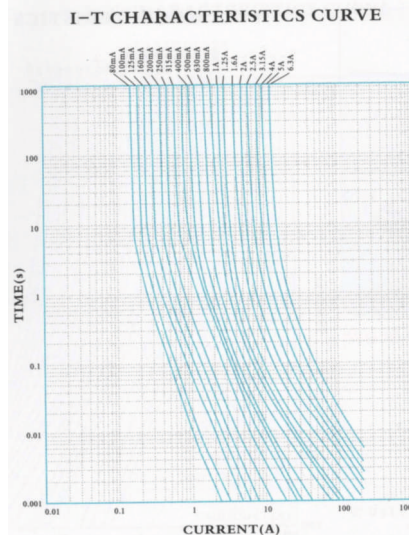
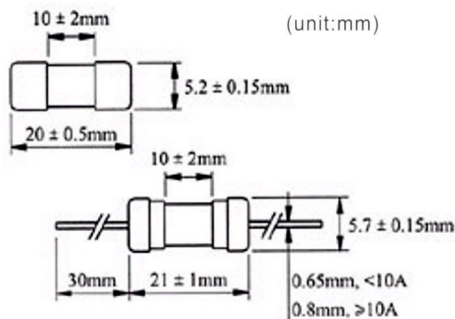
# FUSES

## Ø 5.2x20 Glass Tube fuses

### GLASS TUBE FUSE(SLOW-BLOW)



FBGTF (1031,1032)



INTERRUPTING RATING:  
35A OR 10 In WHICHEVER IS GREATER  
CCC/VDE/SEMKO

Electrical Characteristics:

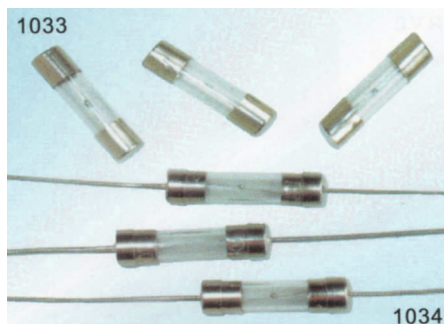
	RATING	2.1 In		2.75 In		4 In		10 In	
		Max	Min	Max	Min	Max	Min	Max	
Blowing Time	32 mA ~ 100mA	2 min	200ms	10s	40ms	3s	10ms	300ms	
	125mA ~ 6.3 A	2 min	600ms	10s	150ms	3s	20ms	300ms	
	8A ~ 15A	30min	600ms	10s	150ms	3s	20ms	300ms	

CODING KEY:

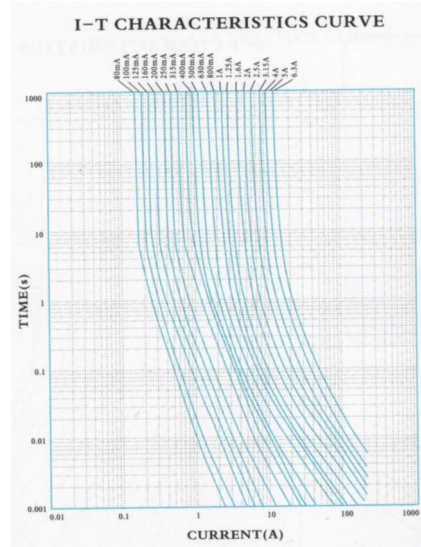
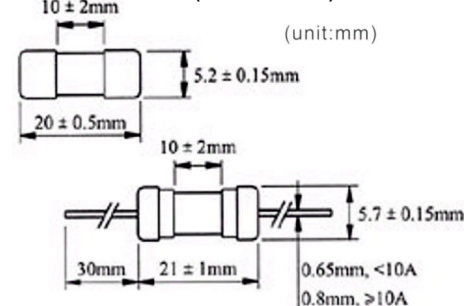
**SM FUSE FBMF1031-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1032-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1033-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1034-Y-F(fast) or S(slow)**  
**Y=Ampere Rating (I=100mA)**

Y	Ampere Rating	mv Voltage Drop	Voltage Rating	Disjunction Power
1	100mA	2500	H/L	H/L
2	125mA	200	H/L	H/L
3	150mA	1900	H/L	H/L
4	160mA	1900	H/L	H/L
5	200mA	1500	H/L	H/L
6	250mA	1300	H/L	H/L
7	300mA	1100	H/L	H/L
8	315mA	1100	H/L	H/L
9	350mA	1100	H/L	H/L
10	400mA	1000	H/L	H/L
11	500mA	900	H/L	H/L
12	600mA	300	H/L	H/L
13	700mA	300	H/L	H/L
14	750mA	300	H/L	H/L
15	800mA	250	H/L	H/L
16	1A	150	H/L	H/L
17	1.2A	150	H/L	H/L
18	1.25A	150	H/L	H/L
19	1.5A	150	H/L	H/L
20	1.6A	150	H/L	H/L
21	1.8A	150	H/L	H/L
22	2A	150	H/L	H/L
23	2.5A	120	H/L	H/L
24	3A	100	H/L	H/L
25	3.15A	100	H/L	H/L
26	3.5A	100	H/L	H/L
27	4A	100	H/L	H/L
28	5A	100	H/L	H/L
29	6A	100	H/L	H/L
30	6.3A	100	H/L	H/L
31	7A	90	H/L	H/L
32	8A	90	H/L	H/L
33	10A	90	H/L	H/L
34	12A	90	H/L	H/L
35	15A	90	H/L	H/L

### GLASS TUBE FUSE(SLOW-BLOW)



FBGTF (1033,1034)



Electrical Characteristics:

	RATING	2.1 In		2.75 In		4 In		10 In	
		Max	Min	Max	Min	Max	Min	Max	
Blowing Time	32 mA ~ 100mA	2 min	200ms	10s	40ms	3s	10ms	300ms	
	125mA ~ 6.3 A	2 min	600ms	10s	150ms	3s	20ms	300ms	
	8A ~ 15A	30min	600ms	10s	150ms	3s	20ms	300ms	

Ampere Voltage:  
H Denotes For 250V  
L Denotes For 125V

Disjunction Power:  
H Denotes For High Disjunction  
L Denotes For LoW Disjunction

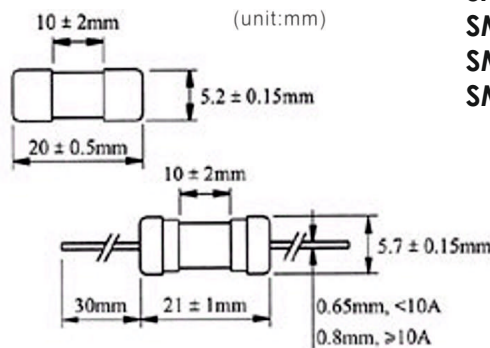
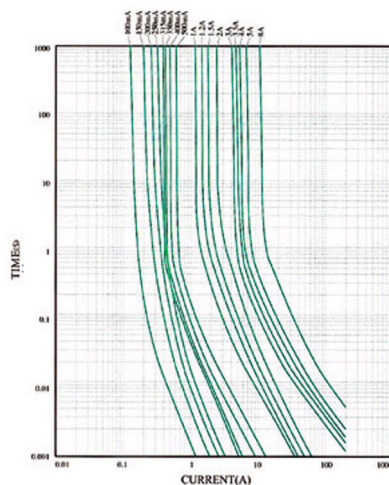
# FUSES

## Ø 5.2x20 Glass Tube Fuses

### GLASS TUBE FUSE(FAST-BLOW)



FBGTF (1035,1036)



Electrical Characteristics:

RATING	BLOWING TIME
130%	4 hour Min
160%	1 hour Max
200%	5 sec Max

CODING KEY:

**SM FUSE FBMF1035-Y-F(fast) or S(slow)**

**SM FUSE FBMF1036-Y-F(fast) or S(slow)**

**SM FUSE FBMF1037-Y-F(fast) or S(slow)**

**SM FUSE FBMF1038-Y-F(fast) or S(slow)**

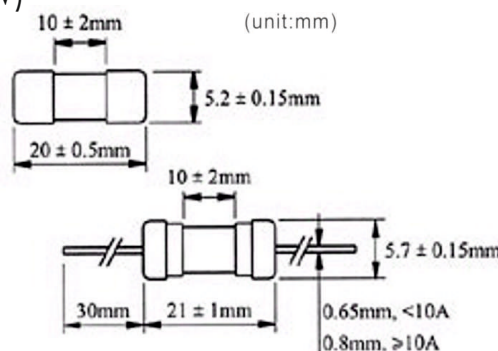
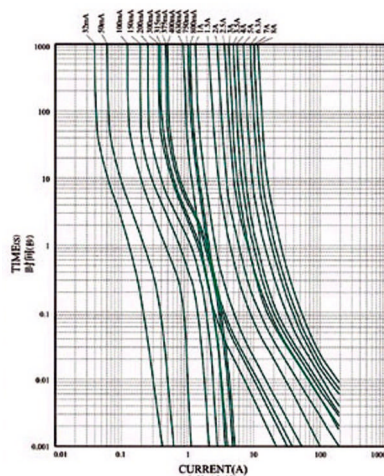
Y=Ampere Rating (1=100mA)

Y	Ampere Rating	Voltage Rating	Disjunction Power
1	100mA	H/L	H/L
2	125mA	H/L	H/L
3	150mA	H/L	H/L
4	160mA	H/L	H/L
5	200mA	H/L	H/L
6	250mA	H/L	H/L
7	300mA	H/L	H/L
8	315mA	H/L	H/L
9	350mA	H/L	H/L
10	400mA	H/L	H/L
11	500mA	H/L	H/L
12	600mA	H/L	H/L
13	700mA	H/L	H/L
14	750mA	H/L	H/L
15	800mA	H/L	H/L
16	1A	H/L	H/L
17	1.2A	H/L	H/L
18	1.25A	H/L	H/L
19	1.5A	H/L	H/L
20	1.6A	H/L	H/L
21	1.8A	H/L	H/L
22	2A	H/L	H/L
23	2.5A	H/L	H/L
24	3A	H/L	H/L
25	3.15A	H/L	H/L
26	3.5A	H/L	H/L
27	4A	H/L	H/L
28	5A	H/L	H/L
29	6A	H/L	H/L
30	6.3A	H/L	H/L
31	7A	H/L	H/L
32	8A	H/L	H/L
33	10A	H/L	H/L
34	12A	H/L	H/L
35	15A	H/L	H/L

### GLASS TUBE FUSE(SLOW-BLOW)



FBGTF (1037,1038)



Electrical Characteristics:

RATING	BLOWING TIME
130%	4 hour Min
135%	1 hour Max
200%	120 sec Max

INTERRUPTING RATING:

- 10,000 amperes at 125V AC (32mA-5A)
- 35 amperes at 250V AC (32mA-1A)
- 100 amperes at 250V AC (1.2A-3.5A)
- 200 amperes at 250V AC (4A-5A)
- 500 amperes at 125V AC (1A-15A) MITI TYPE A
- 100 amperes at 250V AC (1A-15A) MITI TYPE A
- UL/CSA/T-MARK

Ampere Voltage:  
H Denotes For 250V  
L Denotes For 125V

Disjunction Power:  
H Denotes For High  
Disjunction  
L Denotes For LoW  
Disjunction

# FUSES

## Ø 5.2x20 Ceramic Tube Fuse

### CERAMIC TUBE FUSE(FAST-BLOW)



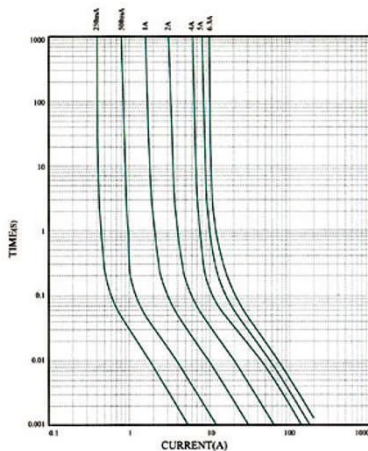
1039



1040

FBCTF(1039,1040)

I-T CHARACTERISTICS CURVE



### CERAMIC TUBE FUSE(SLOW-BLOW)



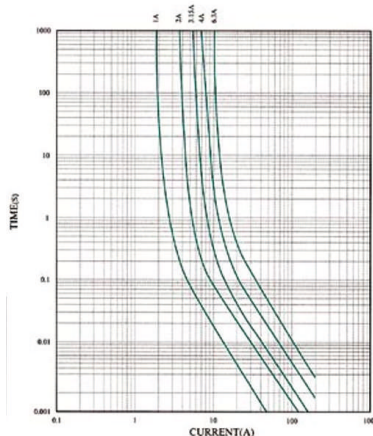
1041



1042

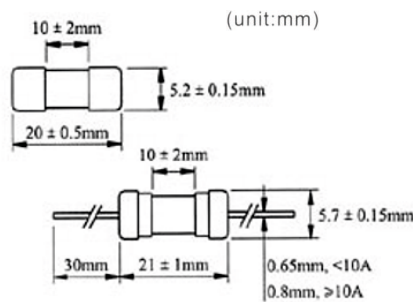
FBCTF(1041,1042)

I-T CHARACTERISTICS CURVE



Electrical Characteristics:

RATING	2.1 In		2.75 In		4 In		10 In
	Max	Min	Max	Min	Max	Max	
Blowing Time	100mA ~ 10A	30 min	10ms	3s	3ms	300ms	20ms



Ampere Voltage:  
H Denotes For 250V  
L Denotes For 125V

Disjunction Power:  
H Denotes For High Disjunction  
L Denotes For LoW Disjunction

CODINNG KEY:

**SM FUSE FBMF1039-Y-F(fast) or S(slow)**

**SM FUSE FBMF1040-Y-F(fast) or S(slow)**

**SM FUSE FBMF1041-Y-F(fast) or S(slow)**

**SM FUSE FBMF1042-Y-F(fast) or S(slow)**

Y=Ampere Rating (1=100mA)

Y	Ampere Rating	Voltage Rating	Disjunction Power
1	100mA	H/L	H/L
2	125mA	H/L	H/L
3	150mA	H/L	H/L
4	160mA	H/L	H/L
5	200mA	H/L	H/L
6	250mA	H/L	H/L
7	300mA	H/L	H/L
8	315mA	H/L	H/L
9	350mA	H/L	H/L
10	400mA	H/L	H/L
11	500mA	H/L	H/L
12	600mA	H/L	H/L
13	700mA	H/L	H/L
14	750mA	H/L	H/L
15	800mA	H/L	H/L
16	1A	H/L	H/L
17	1.2A	H/L	H/L
18	1.25A	H/L	H/L
19	1.5A	H/L	H/L
20	1.6A	H/L	H/L
21	1.8A	H/L	H/L
22	2A	H/L	H/L
23	2.5A	H/L	H/L
24	3A	H/L	H/L
25	3.15A	H/L	H/L
26	3.5A	H/L	H/L
27	4A	H/L	H/L
28	5A	H/L	H/L
29	6A	H/L	H/L
30	6.3A	H/L	H/L
31	7A	H/L	H/L
32	8A	H/L	H/L
33	10A	H/L	H/L
34	12A	H/L	H/L
35	15A	H/L	H/L
36	20A	H/L	H/L
37	25A	H/L	H/L
38	30A	H/L	H/L

Electrical Characteristics:

RATING	2.1 In		2.75 In		4 In		10 In
	Max	Min	Max	Min	Max	Min	Max
Blowing Time	200 mA ~ 800mA	30 min	400ms, 80s	20ms	5s	5ms	100ms
	1A ~ 3.5 A	30 min	1s 80s	95ms	5s	10ms	100ms
	3.15A ~ 6.3A	30min	1s 80s	150ms	5s	20ms	100ms
	8A ~ 15A	30min	1s 80s	150ms	5s	20ms	120ms

INTERRUPTING RATING:  
1,500 amperes at 250V AC (100mA-30A)

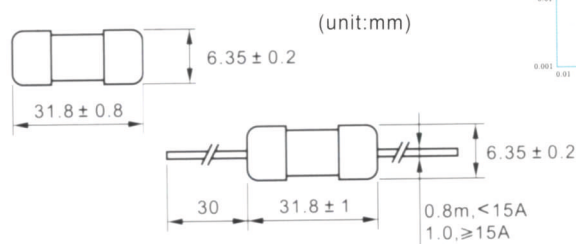
# FUSES

## Ø 6.35x32, Ø 6.35x30 Glass Tube Fuse

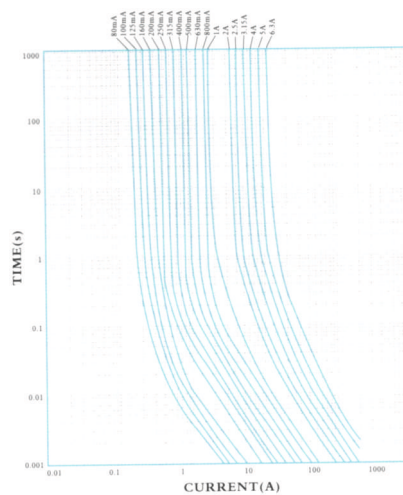
### GLASS TUBE FUSE(FAST-BLOW)



FBGTF(1043,1044)



I-T CHARACTERISTICS CURVE



### CODINNG KEY:

**SM FUSE FBMF1043-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1044-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1045-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1046-Y-F(fast) or S(slow)**  
 Y=Ampere Rating (1=100mA)

### Electrical Characteristics:

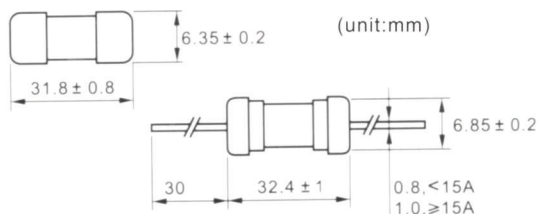
RATING	2.1 In		2.75 In		4 In		10 In
	Max	Min	Max	Min	Max	Max	
Blowing Time	50 mA ~ 100mA	20s	20ms	200ms	1ms	30ms	5ms
Time	? 100mA ~ 10 A	20s	20ms	1500ms	8ms	400ms	80ms

Y	Ampere Rating	mv Voltage Drop	Voltage Rating	Disjunction Power
1	100mA	2500	H/L	H/L
2	125mA	200	H/L	H/L
3	150mA	1900	H/L	H/L
4	160mA	1900	H/L	H/L
5	200mA	1500	H/L	H/L
6	250mA	1300	H/L	H/L
7	300mA	1100	H/L	H/L
8	315mA	1100	H/L	H/L
9	350mA	1100	H/L	H/L
10	400mA	1000	H/L	H/L
11	500mA	900	H/L	H/L
12	600mA	300	H/L	H/L
13	700mA	300	H/L	H/L
14	750mA	300	H/L	H/L
15	800mA	250	H/L	H/L
16	1A	150	H/L	H/L
17	1.2A	150	H/L	H/L
18	1.25A	150	H/L	H/L
19	1.5A	150	H/L	H/L
20	1.6A	150	H/L	H/L
21	1.8A	150	H/L	H/L
22	2A	150	H/L	H/L
23	2.5A	120	H/L	H/L
24	3A	100	H/L	H/L
25	3.15A	100	H/L	H/L
26	3.5A	100	H/L	H/L
27	4A	100	H/L	H/L
28	5A	100	H/L	H/L
29	6A	100	H/L	H/L
30	6.3A	100	H/L	H/L
31	7A	90	H/L	H/L
32	8A	90	H/L	H/L
33	10A	90	H/L	H/L
34	12A	90	H/L	H/L
35	15A	90	H/L	H/L

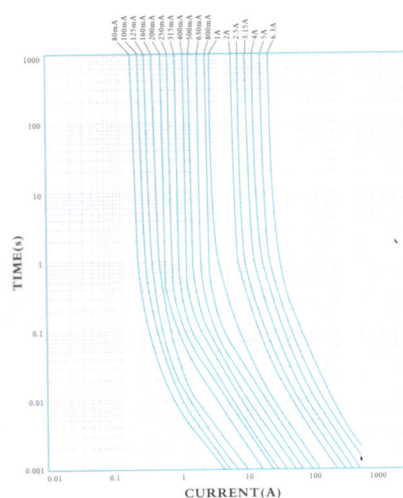
### GLASS TUBE FUSE(FAST-BLOW)



FBGTF(1045,1046)



I-T CHARACTERISTICS CURVE



Ampere Voltage:  
 H Denotes For 250V  
 L Denotes For 125V

Disjunction Power:  
 H Denotes For High Disjunction  
 L Denotes For LoW Disjunction

### Electrical Characteristics:

RATING	2.1 In		2.75 In		4 In		10 In
	Max	Min	Max	Min	Max	Max	
Blowing Time	50 mA ~ 100mA	20s	20ms	200ms	1ms	30ms	5ms
Time	? 100mA ~ 10 A	20s	20ms	1500ms	8ms	400ms	80ms

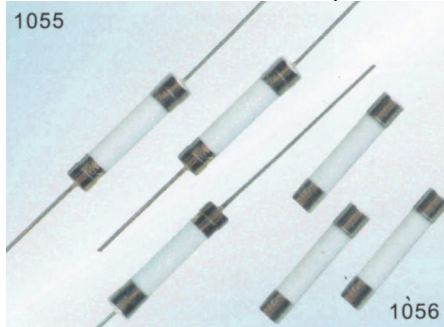
INTERRUPTING RATING:  
 35A OR 10 In WHICHEVER IS GREATER  
 CCC/VDE/SEMKO



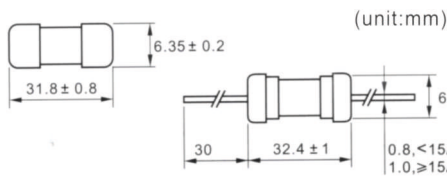
# FUSES

## Ø 6.35x30, Ø 6.35x32 Ceramic Tube Fuses

### CERAMIC TUBE FUSE (FAST-BLOW<sup>1</sup>)



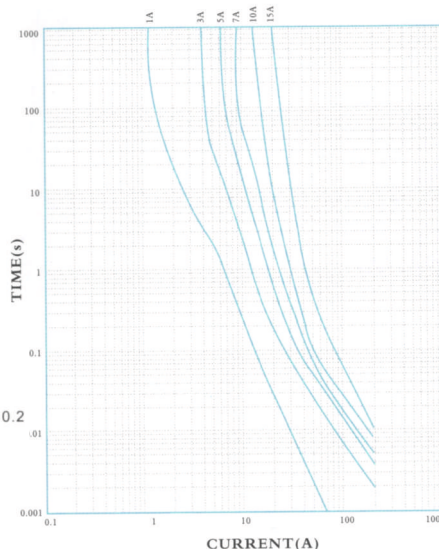
SM FUSE FBCTF(1055,1056)



Electrical Characteristics:

RATING	BLOWING TIME
100%	4 hour Min
135%	1 hour Max
200%	2min Max

### I-T CHARACTERISTICS CURVE

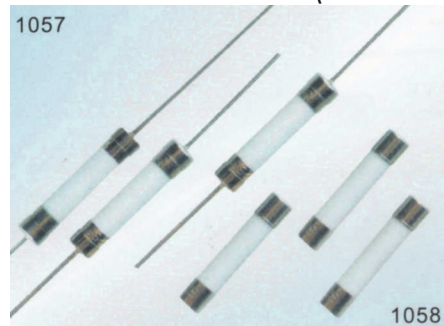


CODINNG KEY:

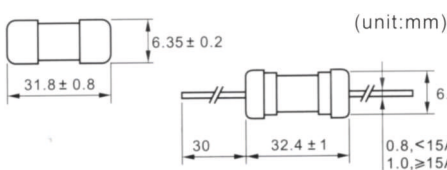
**SM FUSE FBMF1055-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1056-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1057-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1058-Y-F(fast) or S(slow)**  
 Y=Ampere Rating (1=100mA)

Y	Ampere Rating	Voltage Rating	Disjunction Power
1	100mA	H/L	H/L
2	125mA	H/L	H/L
3	150mA	H/L	H/L
4	160mA	H/L	H/L
5	200mA	H/L	H/L
6	250mA	H/L	H/L
7	300mA	H/L	H/L
8	315mA	H/L	H/L
9	350mA	H/L	H/L
10	400mA	H/L	H/L
11	500mA	H/L	H/L
12	600mA	H/L	H/L
13	700mA	H/L	H/L
14	750mA	H/L	H/L
15	800mA	H/L	H/L
16	1A	H/L	H/L
17	1.2A	H/L	H/L
18	1.25A	H/L	H/L
19	1.5A	H/L	H/L
20	1.6A	H/L	H/L
21	1.8A	H/L	H/L
22	2A	H/L	H/L
23	2.5A	H/L	H/L
24	3A	H/L	H/L
25	3.15A	H/L	H/L
26	3.5A	H/L	H/L
27	4A	H/L	H/L
28	5A	H/L	H/L
29	6A	H/L	H/L
30	6.3A	H/L	H/L
31	7A	H/L	H/L
32	8A	H/L	H/L
33	10A	H/L	H/L
34	12A	H/L	H/L
35	15A	H/L	H/L

### CERAMIC TUBE FUSE(SLOW-FUSE)



SM FUSE FBCTF(1057,1058)



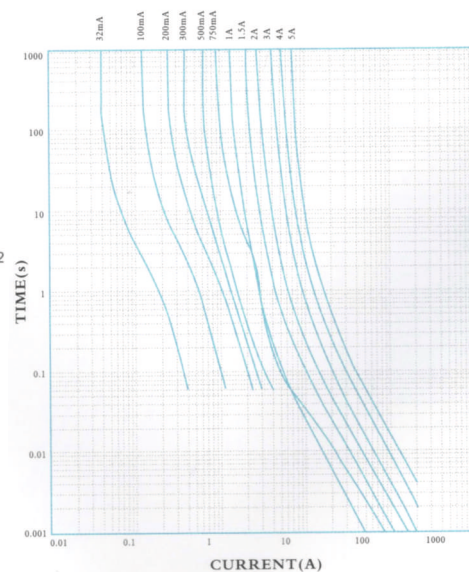
Electrical Characteristics:

RATING	BLOWING TIME
100%	4 hour Min
135%	1 hour Max
200%	5s-120s

INTERRUPTING RATING:

10,000 amperes at 125V AC (32mA-5A)  
 35 amperes at 250V AC (32mA-1A)  
 100 amperes at 250V AC (1.2A-3.5A)  
 200 amperes at 250V AC (4A-5A)  
 500 amperes at 125V AC (1A-15A)MITI TYPE A  
 100 amperes at 250V AC (1A-15A)MITI TYPE A

### I-T CHARACTERISTICS CURVE



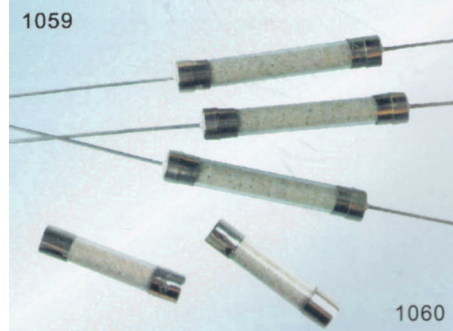
Ampere Voltage:  
 H Denotes For 250V  
 L Denotes For 125V

Disjunction Power:  
 H Denotes For High Disjunction  
 L Denotes For LoW Disjunction

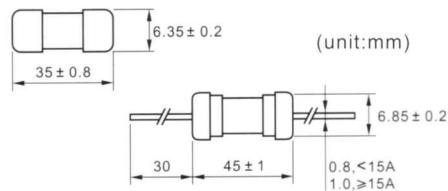
# FUSES

## Ø 6.35x35, Ø 6.35x45 Glass Tube Fuses

### GLASS TUBE FUSE (FAST-BLOW)

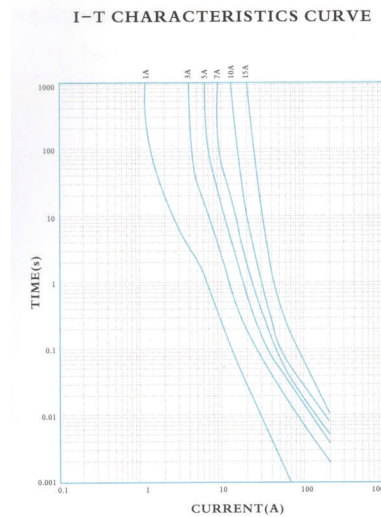


SM FUSE FBGTF(1059,1060)



Electrical Characteristics:

RATING	2.1 In		2.75 In		4 In		10 In
	Max	Min	Max	Min	Max	Max	
Blowing Time	50 mA ~ 100mA	20s	20ms	200ms	1ms	30ms	5ms
	100mA ~ 10 A	20s	20ms	1800ms	10ms	600ms	120ms

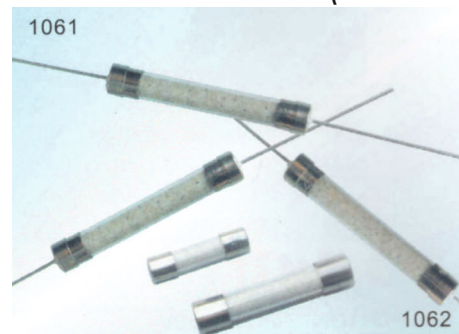


CODINNG KEY:

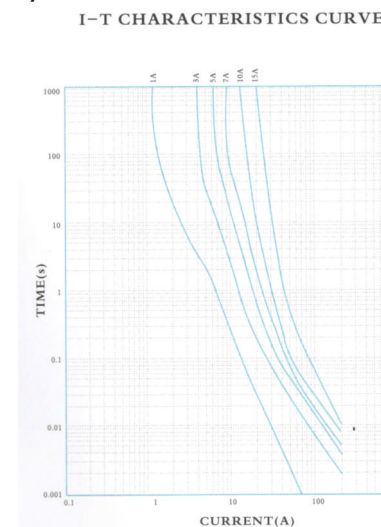
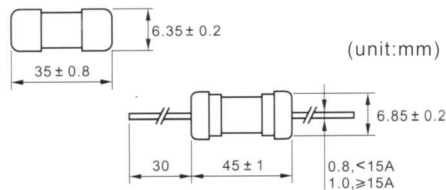
SM FUSE FBMF1059-**Y**-F(fast) or S(slow)  
SM FUSE FBMF1060-**Y**-F(fast) or S(slow)  
SM FUSE FBMF1061-**Y**-F(fast) or S(slow)  
SM FUSE FBMF1062-**Y**-F(fast) or S(slow)  
**Y=Ampere Rating (1=100mA)**

Y	Ampere Rating	Voltage Rating	Disjunction Power
1	100mA	H/L	H/L
2	125mA	H/L	H/L
3	150mA	H/L	H/L
4	160mA	H/L	H/L
5	200mA	H/L	H/L
6	250mA	H/L	H/L
7	300mA	H/L	H/L
8	315mA	H/L	H/L
9	350mA	H/L	H/L
10	400mA	H/L	H/L
11	500mA	H/L	H/L
12	600mA	H/L	H/L
13	700mA	H/L	H/L
14	750mA	H/L	H/L
15	800mA	H/L	H/L
16	1A	H/L	H/L
17	1.2A	H/L	H/L
18	1.25A	H/L	H/L
19	1.5A	H/L	H/L
20	1.6A	H/L	H/L
21	1.8A	H/L	H/L
22	2A	H/L	H/L
23	2.5A	H/L	H/L
24	3A	H/L	H/L
25	3.15A	H/L	H/L
26	3.5A	H/L	H/L
27	4A	H/L	H/L
28	5A	H/L	H/L
29	6A	H/L	H/L
30	6.3A	H/L	H/L
31	7A	H/L	H/L
32	8A	H/L	H/L
33	10A	H/L	H/L
34	12A	H/L	H/L
35	15A	H/L	H/L

### GLASS TUBE FUSE (SLOW-BLOW)



SM FUSE FBGTF(1061,1062)



Electrical Characteristics:

RATING	BLOWING TIME
130%	4 hour Min
160%	1 hour Max
200%	120 sec Max

INTERRUPTING RATING:  
1,500 amperes at 250V AC (100mA-30A)

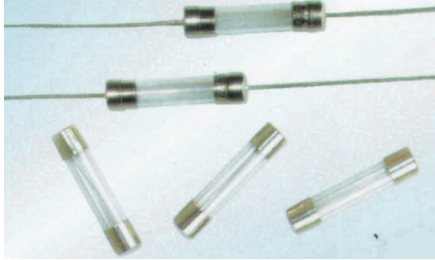
Ampere Voltage:  
H Denotes For 250V  
L Denotes For 125V

Disjunction Power:  
H Denotes For High Disjunction  
L Denotes For Low Disjunction

# FUSES

## Ø 6.35x25 Glass Tube Fuses

### CERAMIC TUBE FUSE (FAST-BLOW)



SM FUSE FBGTF(1063,1064)

CODINNG KEY:

**SM FUSE FBMF1063-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1064-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1065-Y-F(fast) or S(slow)**  
**SM FUSE FBMF1066-Y-F(fast) or S(slow)**  
 Y=Ampere Rating (1=100mA)

Electrical Characteristics:

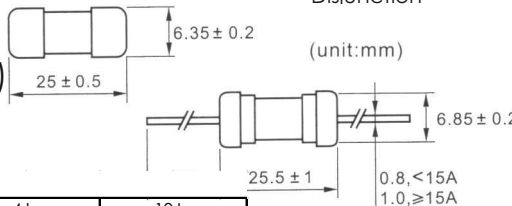
RATING		2.1 In		2.75 In		4 In		10 In
		Max	Min	Max	Min	Max	Max	
Blowing Time	? 50 mA ~ 100mA	20s	20ms	200ms	1ms	30ms	5ms	
	? 100mA ~ 10 A	20s	20ms	1500ms	8ms	400ms	80ms	

Ampere Voltage:  
H Denotes For 250V  
L Denotes For 125V

Disjunction Power:  
H Denotes For High Disjunction  
L Denotes For Low Disjunction

Y	Ampere Rating	mv Voltage Drop	Voltage Rating	Disjunction Power
1	100mA	6000	H/L	H/L
2	125mA	5500	H/L	H/L
3	150mA	5500	H/L	H/L
4	160mA	5000	H/L	H/L
5	200mA	4000	H/L	H/L
6	250mA	3500	H/L	H/L
7	300mA	3000	H/L	H/L
8	315mA	3000	H/L	H/L
9	350mA	3000	H/L	H/L
10	400mA	2500	H/L	H/L
11	500mA	2000	H/L	H/L
12	600mA	1800	H/L	H/L
13	700mA	1800	H/L	H/L
14	750mA	1800	H/L	H/L
15	800mA	1500	H/L	H/L
16	1A	500	H/L	H/L
17	1.2A	400	H/L	H/L
18	1.25A	400	H/L	H/L
19	1.5A	400	H/L	H/L
20	1.6A	400	H/L	H/L
21	1.8A	400	H/L	H/L
22	2A	300	H/L	H/L
23	2.5A	250	H/L	H/L
24	3A	250	H/L	H/L
25	3.15A	250	H/L	H/L
26	3.5A	250	H/L	H/L
27	4A	250	H/L	H/L
28	5A	200	H/L	H/L
29	6A	200	H/L	H/L
30	6.3A	200	H/L	H/L
31	7A	200	H/L	H/L
32	8A	200	H/L	H/L
33	10A	200	H/L	H/L
34	12A	200	H/L	H/L
35	15A	200	H/L	H/L

### CERAMIC TUBE FUSE(SLOW-FUSE) SM FUSE FBGTF(1065,1066)



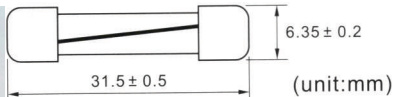
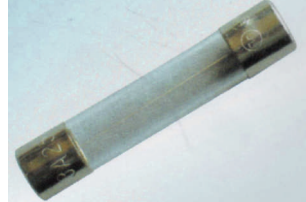
Electrical Characteristics:

RATING		2.1 In		2.75 In		4 In		10 In	
		Max	Min	Max	Min	Max	Min	Max	
Blowing Time	32 mA ~ 100mA	2 min	200ms	10s	40ms	3s	10ms	300ms	
	125mA ~ 6.3 A	2 min	600ms	10s	150ms	3s	20ms	300ms	
	8A ~ 15A	30min	600ms	10s	150ms	3s	20ms	300ms	

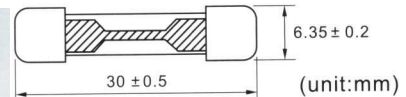
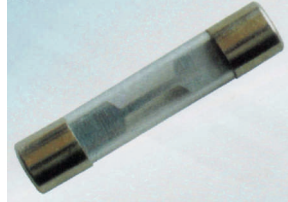
INTERRUPTING RATING:  
35A OR 10 In WHICHEVER IS GREATER

## Ø Low- Tension Tube Fuse(Fast-Blow)

SM FUSE FBGTF1067



SM FUSE FBGTF1070

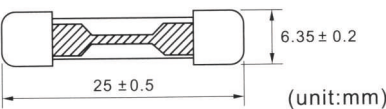


Electrical Characteristics:

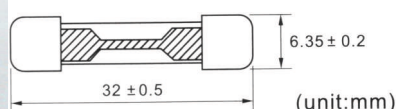
RATING	BLOWING TIME
100%	4 hour Min
135%	1 hour Max
200%	10 sec Max

RATED CURRENT (32V, 24V):  
5A, 10A, 15A, 25A, 30A, 40A

SM FUSE FBGTF1068

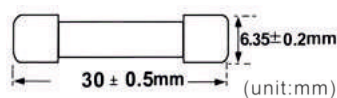


SM FUSE FBGTF1071

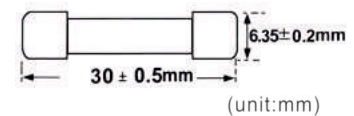
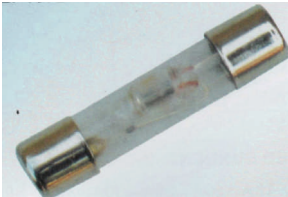


## Neon Tube of Electricity Probe

SM FUSE FBGTF1069



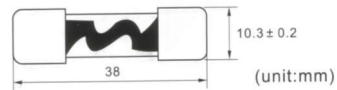
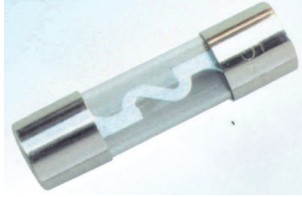
SM FUSE FBGTF1072



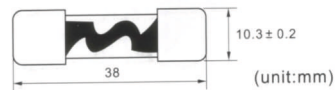
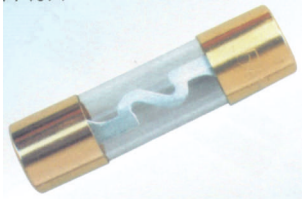
# FUSES

## Low-Tension Tube Fuses

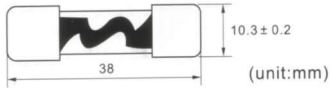
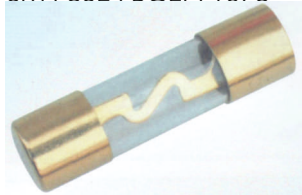
SM FUSE FBCEPF1073



SM FUSE FBCEPF1074



SM FUSE FBCEPF1075



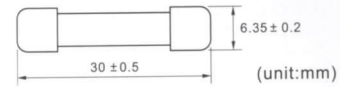
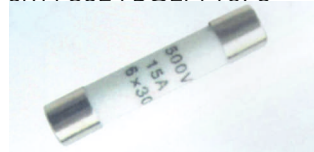
RATED CURRENT:  
10A, 15A, 20A, 25A, 30A, 40A, 50A,  
60A, 70A, 80A, 100A (32V, 24V)

Electrical Characteristics:

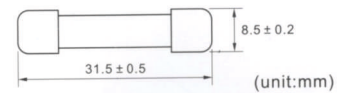
RATING	BLOWING TIME
110%	4 hour Min
135%	1 hour Max
200%	10 sec Max

## Electric Power Tube Fuses

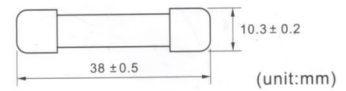
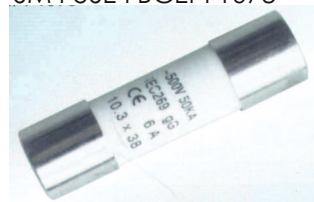
SM FUSE FBCEPF1076



SM FUSE FBCEPF1077



SM FUSE FBCEPF1078



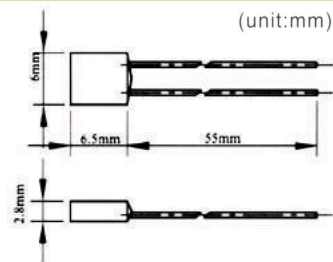
RATED CURRENT:  
1A ~ 40A (250V, 500V)

Electrical Characteristics:

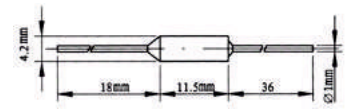
RATING	BLOWING TIME
110%	4 hour Min
135%	1 hour Max
200%	120 sec Max

## Thermal Fuses

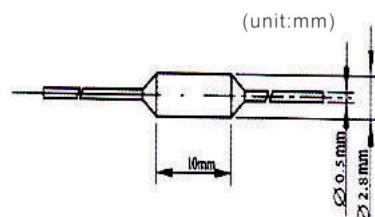
SM FUSE FBTF1079



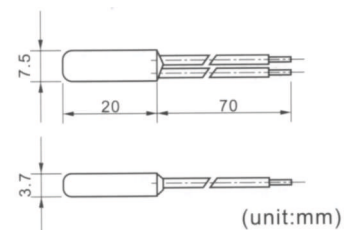
SM FUSE FBTF1081



SM FUSE FBTF1080



SM FUSE FBTF1082



Working condition:  
1. Working Voltage: <250V  
2. Working Frequency: 45-62Hz  
3. Ambient Temperature: at + 40 °C,  
it can reach 90%-95%  
4. Atmosphere Pressure: 86-106 kPa

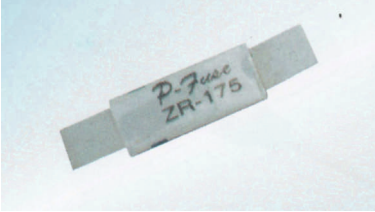
BASIC PARAMETERS:

Action Temperature °C	Action Accuracy °C	Holding Temperature °C	Limited Temperature °C	Rated Current °C	On-Off Current °C	Instantaneous Overloading Current °C
106	101.2	75	165	0.3, 0.5, 1, 2, 5, 10	1.5In	15In
116	111.2	80	165	0.3, 0.5, 1, 2, 5, 11	5In	15In
126	121.2	85	165	0.3, 0.5, 1, 2, 5, 12	1.5In	15In
130	125.2	90	165	0.3, 0.5, 1, 2, 5, 13	1.5In	15In
136	131.2	95	165	0.3, 0.5, 1, 2, 5, 14	1.5In	15In
145	140.2	100	165	0.3, 0.5, 1, 2, 5, 15	1.5In	15In
152	147.2	110	165	0.3, 0.5, 1, 2, 5, 16	1.5In	15In
170	165.2	120	165	1, 2, 3, 5, 10	1.5In	15In

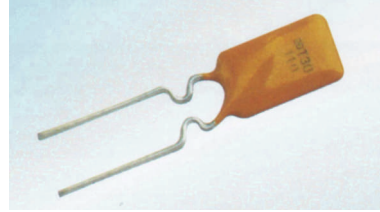
# FUSES

## PTC Polymer Resettable Fuses

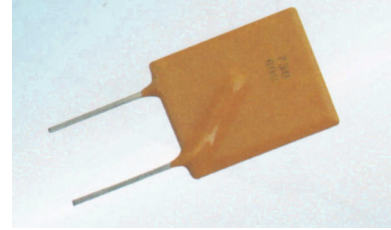
SM FUSE FBRF1083



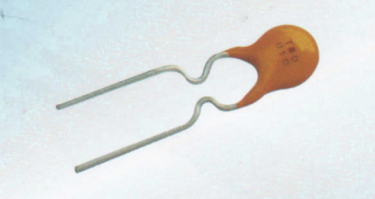
SM FUSE FBRF1085



SM FUSE FBRF1087



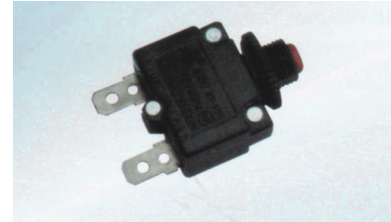
SM FUSE FBRF1084



SM FUSE FBRF1086



SM FUSE FBRF1088

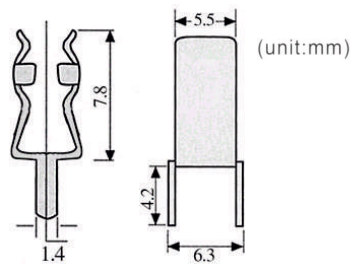


Main Peculiarity:

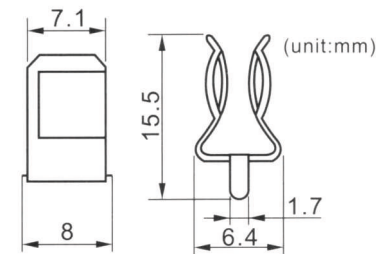
1. Zero Power, Lower Resistance
2. Overload of Electric Current, Quick Speed of Stopping
3. Large Safety electric Current
4. Lower Surface Temperature
5. With Automatic Recovery Function

## FUSE CLIPS

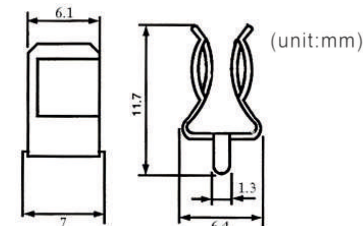
SM FUSE FBFC1089



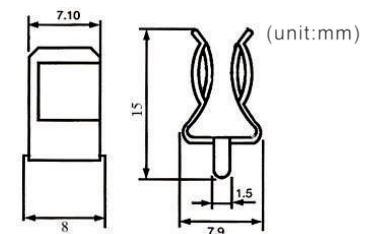
SM FUSE FBFC1092



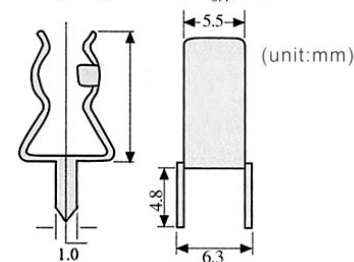
SM FUSE FBFC1090



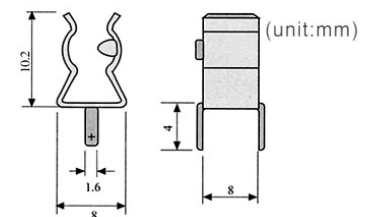
SM FUSE FBFC1093



SM FUSE FBFC1091



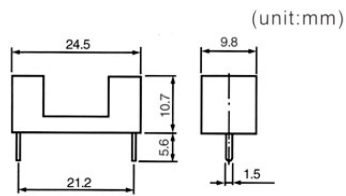
SM FUSE FBFC1094



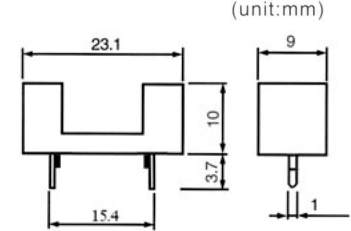
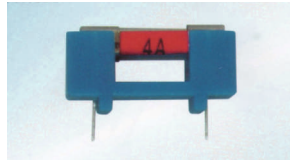
# FUSES

## Fuse Holder

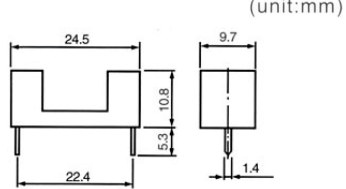
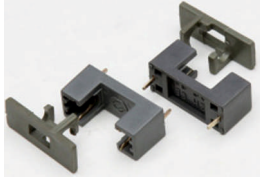
SM FUSE FBFB1095



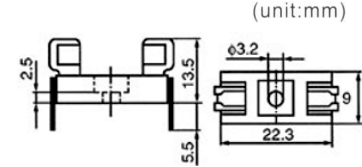
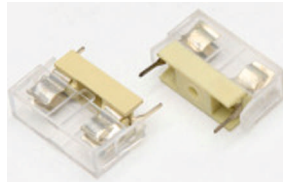
SM FUSE FBFB1098



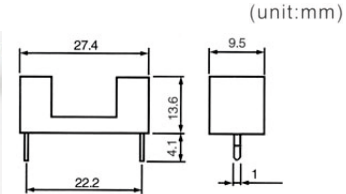
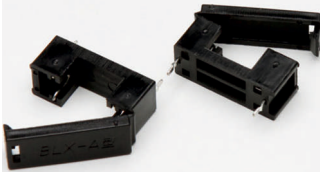
SM FUSE FBFB1096



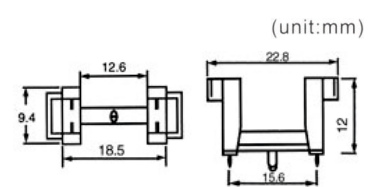
SM FUSE FBFB1099



SM FUSE FBFB1097

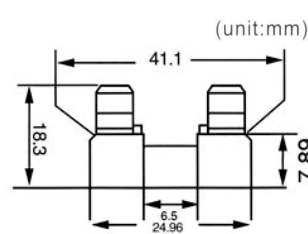
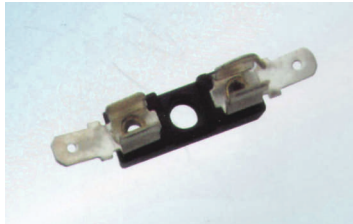


SM FUSE FBFB1 100

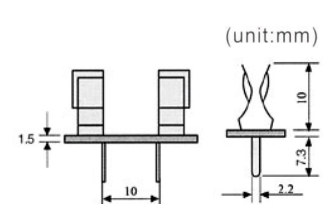
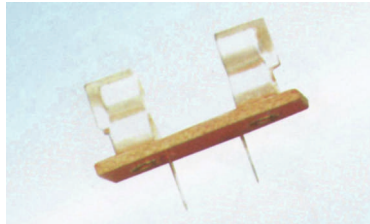


## Fuse Holder

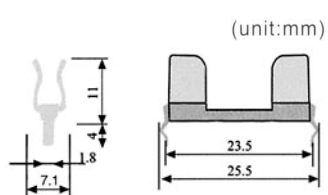
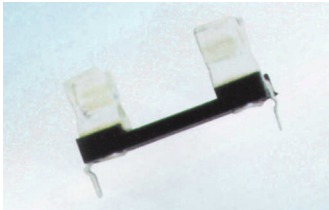
SM FUSE FBFH1101



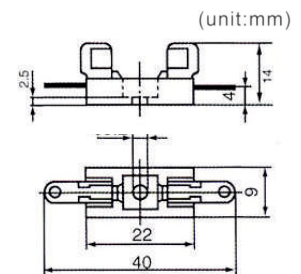
SM FUSE FBFH1104



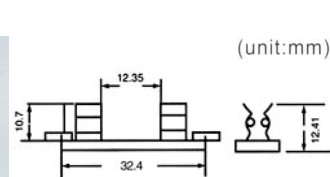
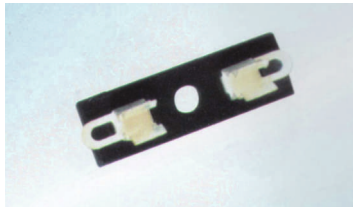
SM FUSE FBFH1102



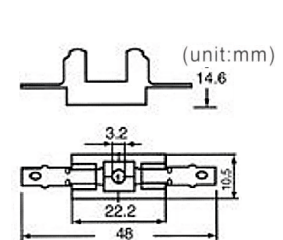
SM FUSE FBFH1105



SM FUSE FBFH1103



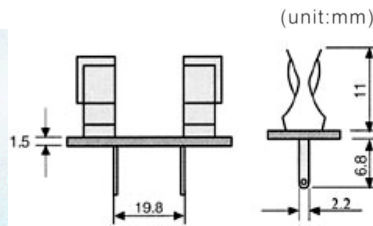
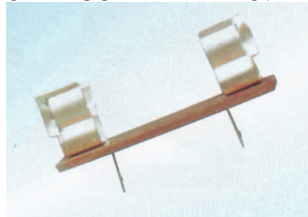
SM FUSE FBFH1106



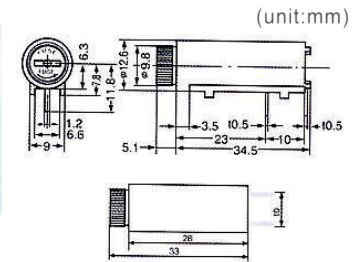
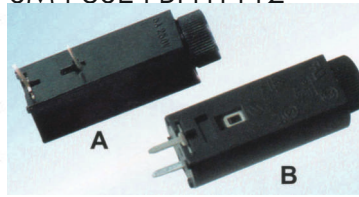
# FUSES

## Fuse Holder

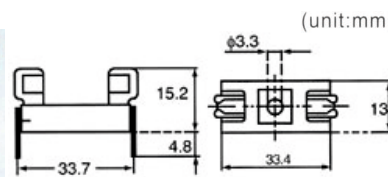
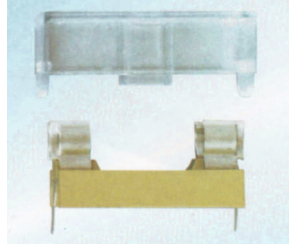
SM FUSE FBFH1107



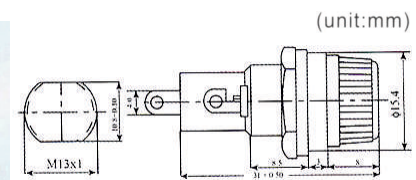
(unit:mm) SM FUSE FBFH1112



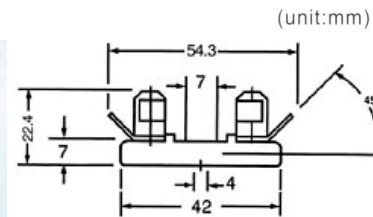
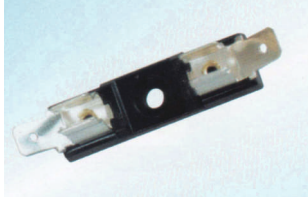
SM FUSE FBFH1108



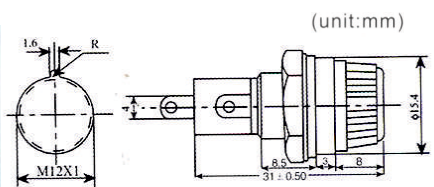
(unit:mm) SM FUSE FBFH1113



SM FUSE FBFH1109

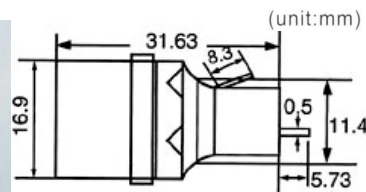


(unit:mm) SM FUSE FBFH1116

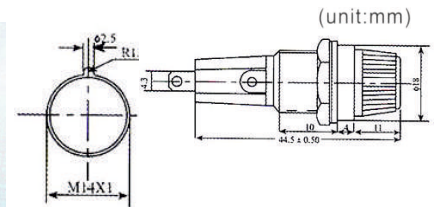


## Fuse Holder

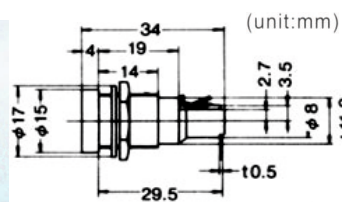
SM FUSE FBFH1114



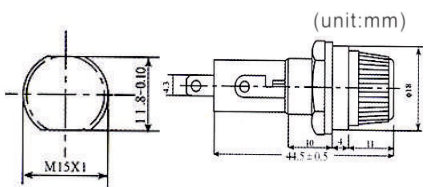
(unit:mm) SM FUSE FBFH1120



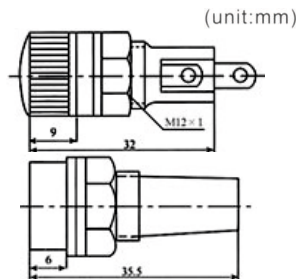
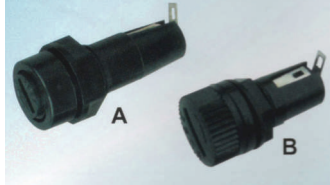
SM FUSE FBFH1115



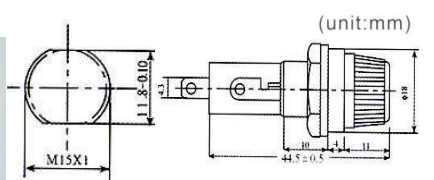
(unit:mm) SM FUSE FBFH1121



SM FUSE FBFH1118



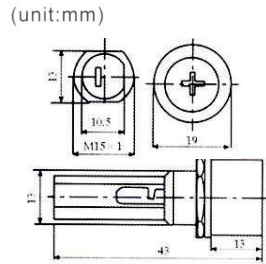
(unit:mm) SM FUSE FBFH1123



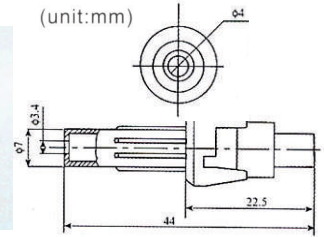
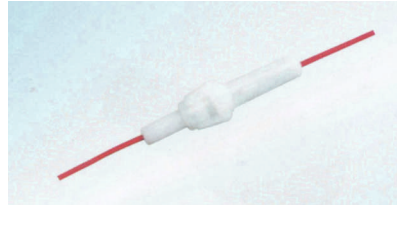
# FUSES

## Fuse Holder

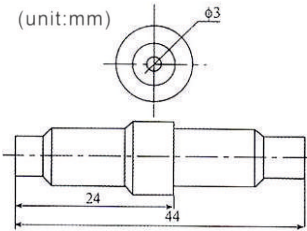
SM FUSE FBFH1124



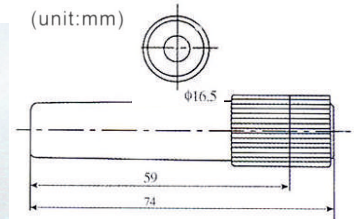
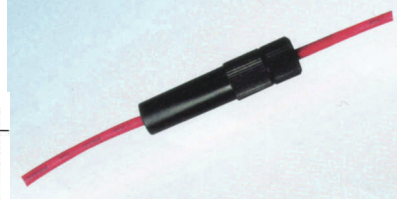
SM FUSE FBFH1127



SM FUSE FBFH1125

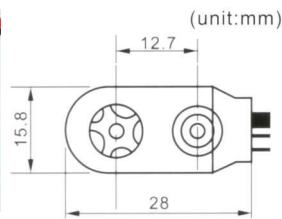
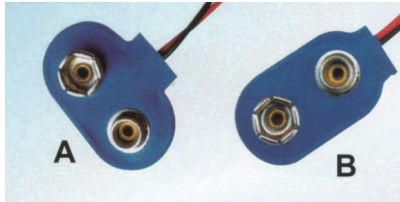


SM FUSE FBFH1131

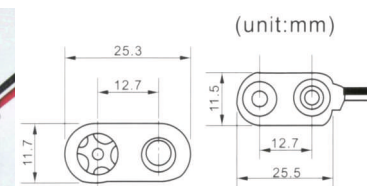
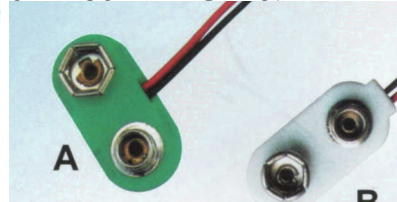


## 6V, 9V Button Cell

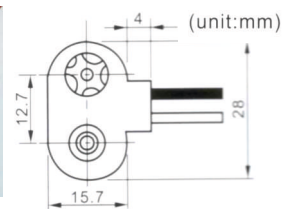
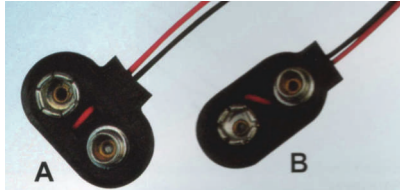
SM FUSE FBBC1133



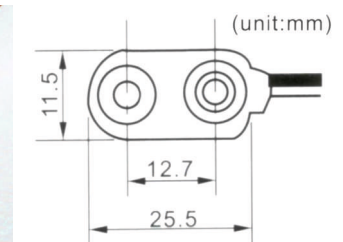
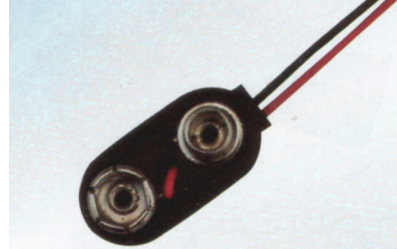
SM FUSE FBBC1137



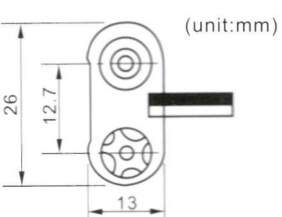
SM FUSE FBBC1134



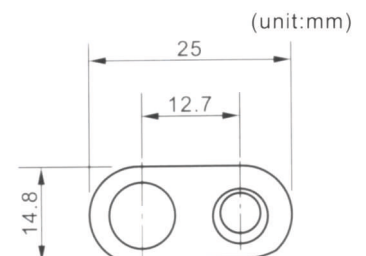
SM FUSE FBBC1138



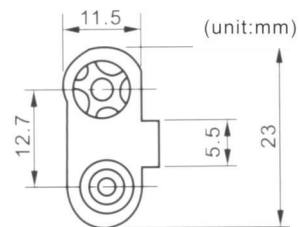
SM FUSE FBBC1135



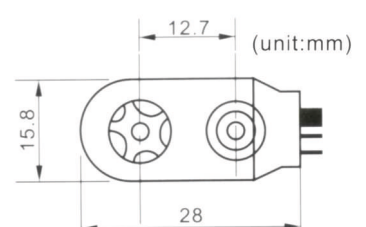
SM FUSE FBBC1139



SM FUSE FBBC1136



SM FUSE FBBC1140

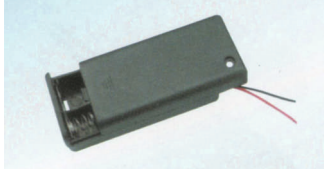




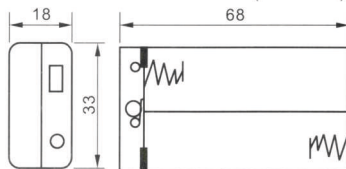
# FUSES

## UM-3 or AA

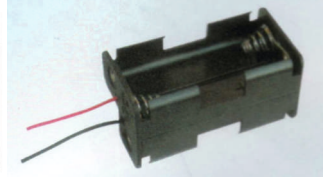
FM FUSE FBCB1141



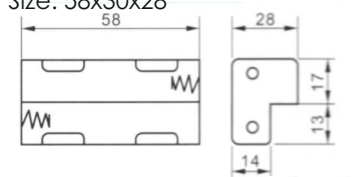
Size: 68x33x18 (unit:mm)



FM FUSE FBFC1149



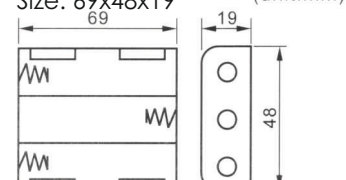
Size: 58x30x28 (unit:mm)



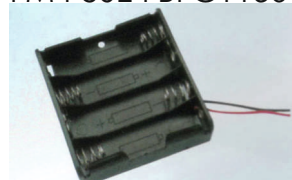
FM FUSE FBCB1142



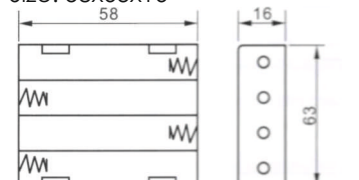
Size: 69x48x19 (unit:mm)



FM FUSE FBFC1150



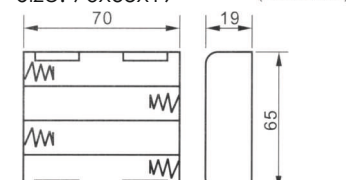
Size: 58x63x16 (unit:mm)



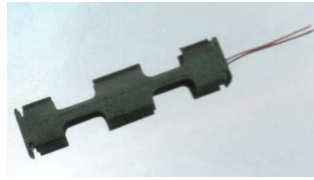
FM FUSE FBCB1143



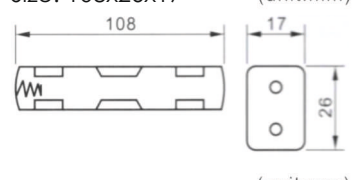
Size: 70x65x19 (unit:mm)



FM FUSE FBFC1151



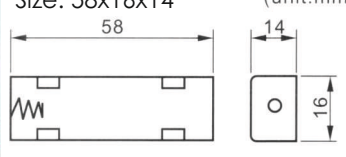
Size: 108x26x17 (unit:mm)



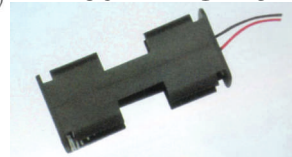
FM FUSE FBCB1144



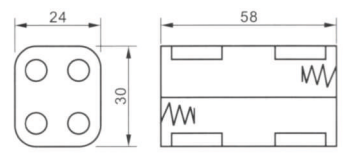
Size: 58x16x14 (unit:mm)



FM FUSE FBFC1152



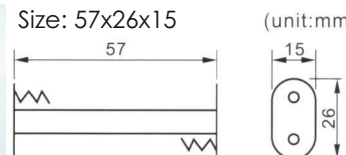
Size: 58x30x24 (unit:mm)



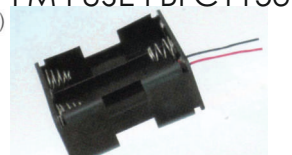
FM FUSE FBCB1145



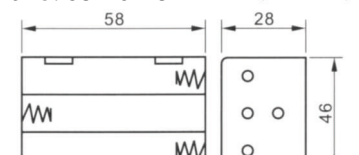
Size: 57x26x15 (unit:mm)



FM FUSE FBFC1153



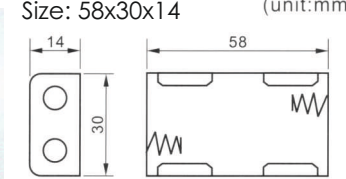
Size: 58x46x28 (unit:mm)



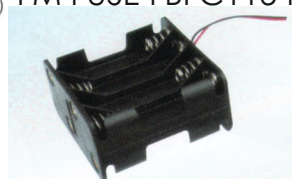
FM FUSE FBCB1146



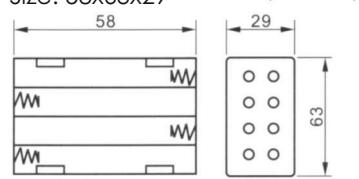
Size: 58x30x14 (unit:mm)



FM FUSE FBFC1154



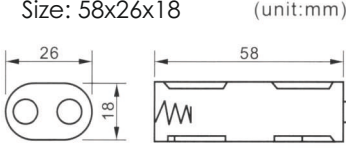
Size: 58x63x29 (unit:mm)



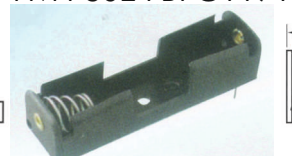
FM FUSE FBCB1147



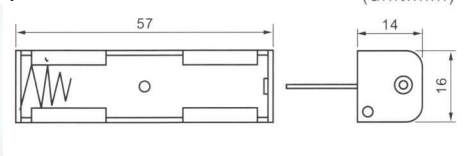
Size: 58x26x18 (unit:mm)



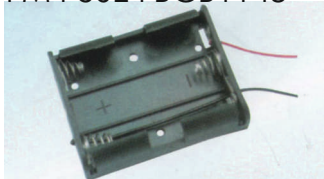
FM FUSE FBFC1191



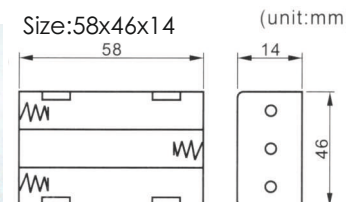
Size: 57x14x16 (unit:mm)



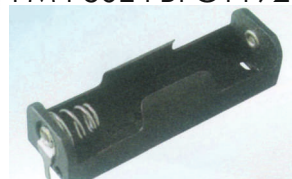
FM FUSE FBCB1148



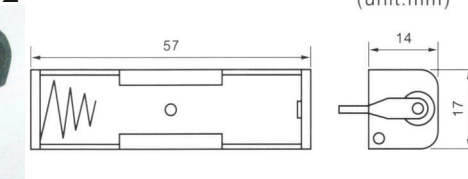
Size: 58x46x14 (unit:mm)



FM FUSE FBFC1192



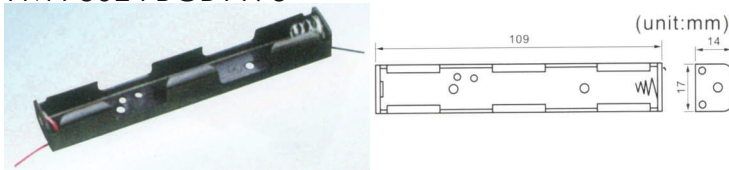
Size: 57x14x17 (unit:mm)



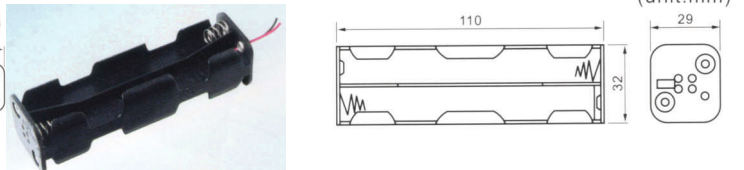
# FUSES

## UM-3 or AA

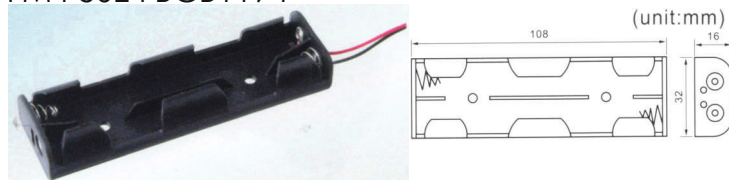
FM FUSE FBCB1193



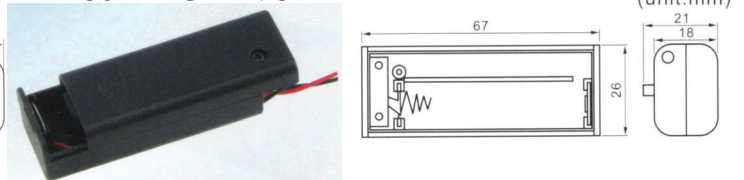
FM FUSE FBCB1197



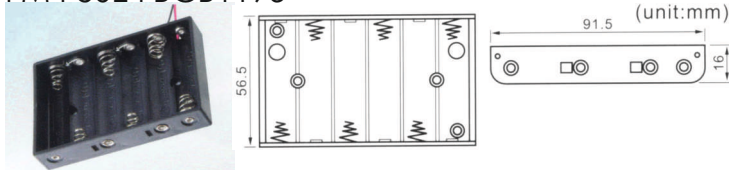
FM FUSE FBCB1194



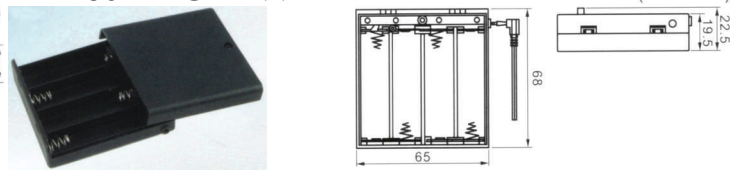
FM FUSE FBCB1198



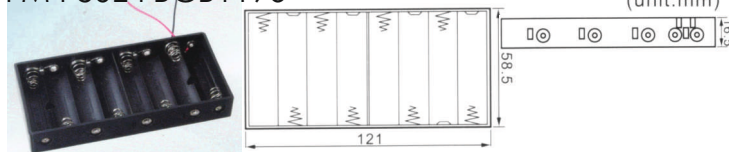
FM FUSE FBCB1195



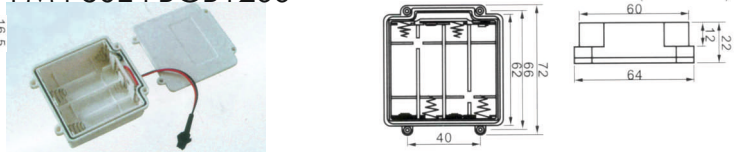
FM FUSE FBCB1199



FM FUSE FBCB1196

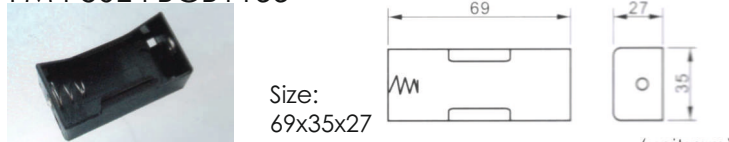


FM FUSE FBCB1200

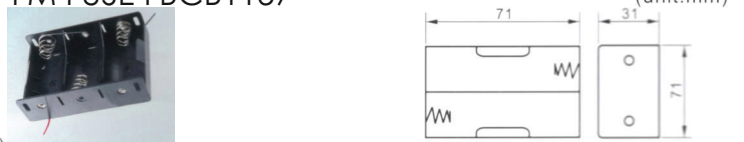


## UM-1 or D

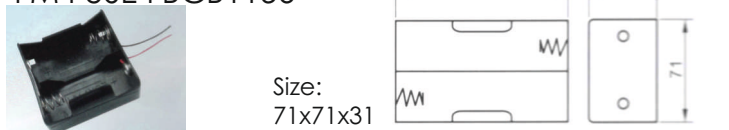
FM FUSE FBCB1155



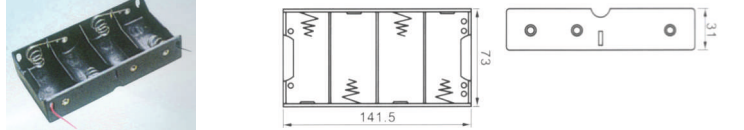
FM FUSE FBCB1157



FM FUSE FBCB1156

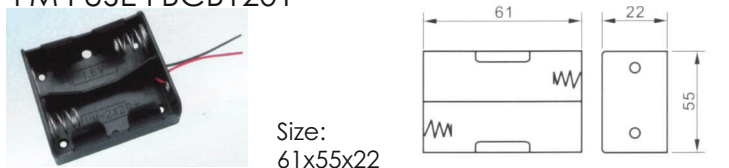


FM FUSE FBCB1158

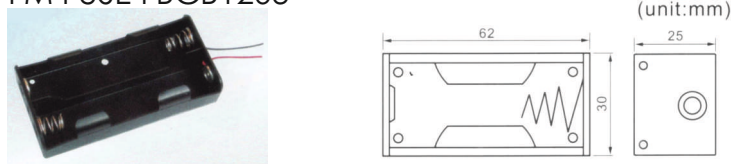


## UM-2 or C

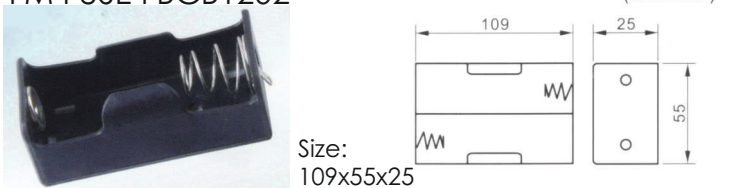
FM FUSE FBCB1201



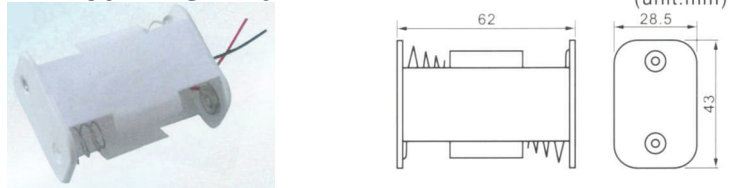
FM FUSE FBCB1203



FM FUSE FBCB1202



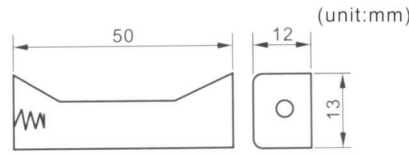
FM FUSE FBCB1204



# FUSES

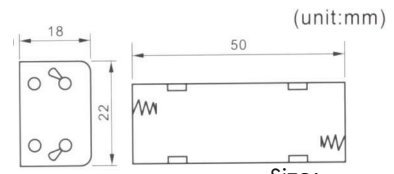
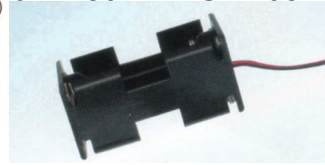
## UM-4 or AAA

SM FUSE FBFC1159



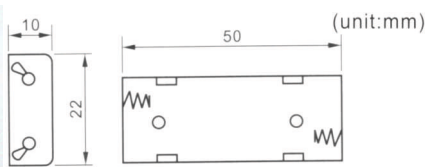
Size:  
50x13x12

SM FUSE FBFC 1163



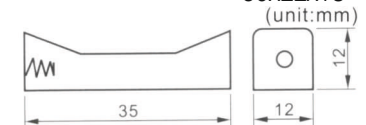
Size:  
50x22x18

SM FUSE FBFC 1160



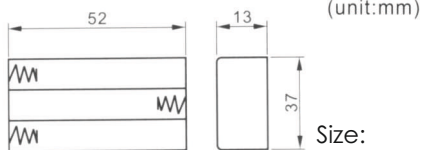
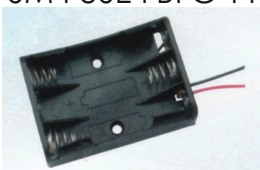
Size:  
50x22x10

SM FUSE FBFC 1164



23A 12V  
Size:  
35x12x12

SM FUSE FBFC 1161



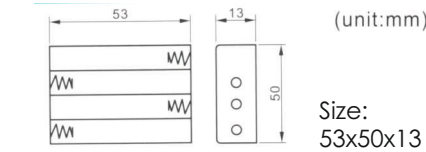
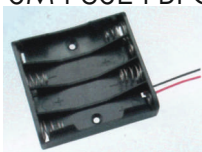
Size:  
52x37x13

SM FUSE FBFC1205



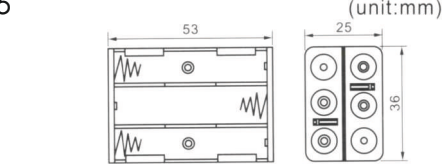
Size:  
50x12x13

SM FUSE FBFC 1162



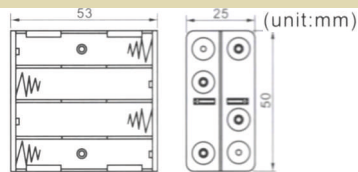
Size:  
53x50x13

SM FUSE FBFC 1206

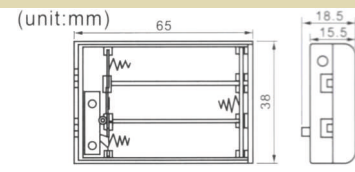


## UM-4 or AAA

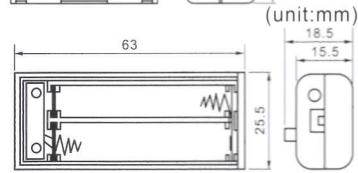
SM FUSE FBCB1207



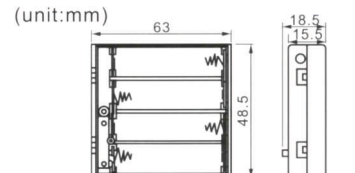
SM FUSE FBCB1209



SM FUSE FBCB1208

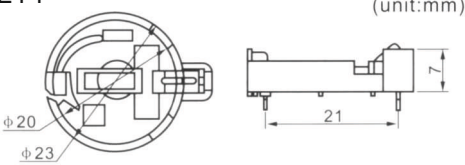


SM FUSE FBCB1210

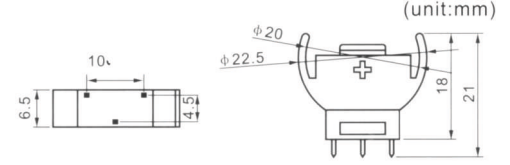
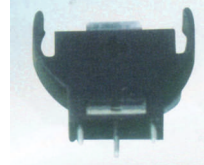


## Cell Holder

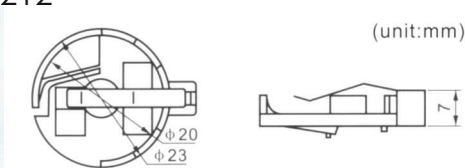
SM FUSE FBCB1211



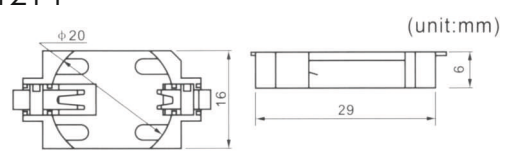
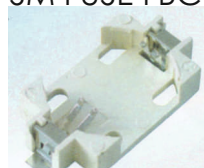
SM FUSE FBCB1213



SM FUSE FBCB1212



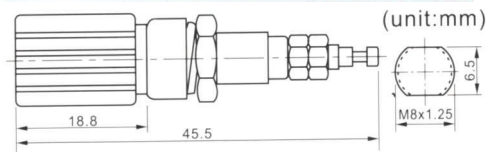
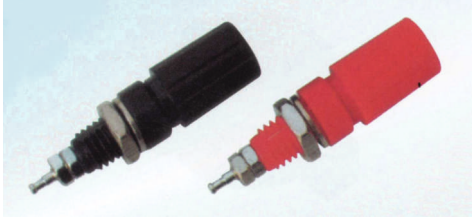
SM FUSE FBCB1214



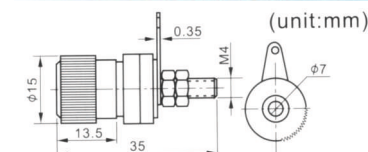
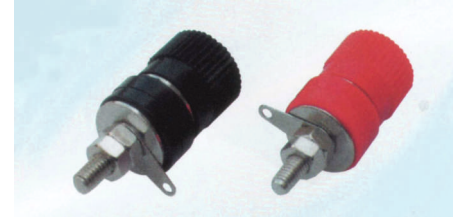
# FUSES

## Binding Post

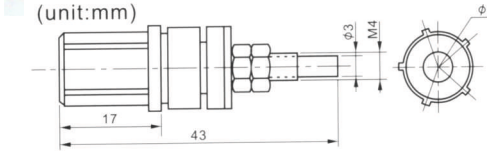
SM FUSE FBBP1165



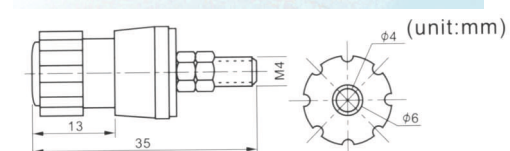
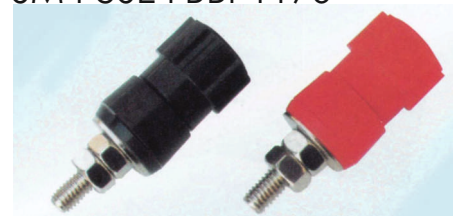
SM FUSE FBBP1169



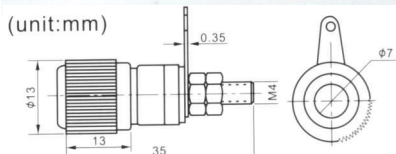
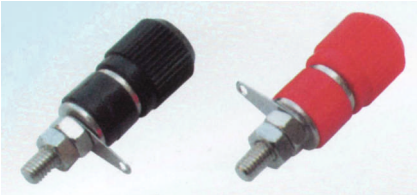
SM FUSE FBBP1166



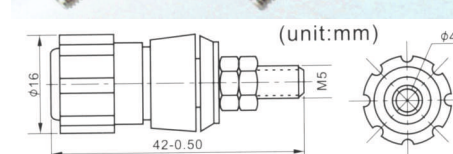
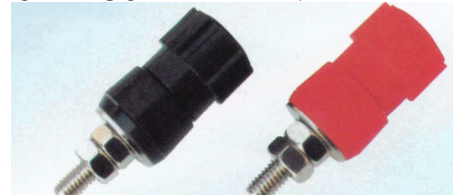
SM FUSE FBBP1170



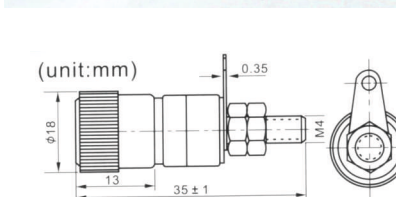
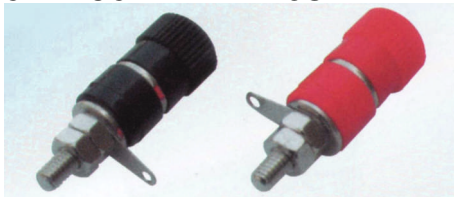
SM FUSE FBBP1167



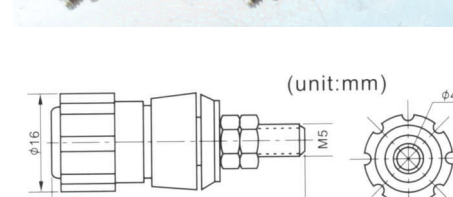
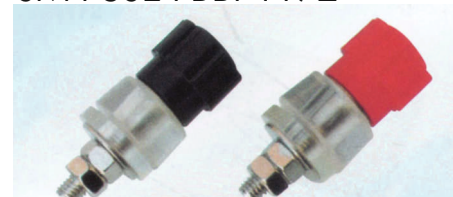
SM FUSE FBBP1171



SM FUSE FBBP1168



SM FUSE FBBP1172



# FUSES GENERAL CATALOGUE

Edition 2017



**SCHMID-MULTITECH, GmbH**

Weinbergstraße 60b, 93105 Tegernheim  
Tel.: +49-9403-9510-0  
info@schmid-m.de  
www.schmid-m.de



**SCHMID-MULTITECH, GmbH**

Ot Ziemendorf, Dorfstraße 49g  
49-39384-9848-0  
info@schmid-m.de  
www.schmid-m.de



**ATD Elektronik, s.r.o.**

Luženice 10, 344 01 Domažlice  
tel.: +420 379 723 915  
info@atd-elektronik.cz  
www.atd-elektronik.cz



**ABC Elektronik Sp. z o.o.**

ul. Kolejowa 10, 38-300 Gorlice  
tel.: +48 18 353-66-65  
info@abcpol.pl  
www.abcpol.pl



**SCHMID-MULTITECH, s.r.o.**

Podjavorinskej 5, 911 05 Trenčín  
tel.: +421-32-7 440 186  
mkovacik@smsk.sk  
www.schmid-multitech.sk



**ANGIELA ELEKTRONIK SRL**

Str.Slanic Nr. 1 Ap3, 400413 Cluj-Napoca  
tel.: +40-264-403-284  
info@angiela-elektronik.ro  
www.angiela-elektronik.ro



**ADMM Kft.**

Rumi u. 284, H-9700 Szombathely  
tel.: +36-94 510-522  
mail@admm.hu  
www.admm.hu