



**Application:**

Low voltage USB equipment

**Product Features:**

Low resistance, Fast trip time , Lower Trip-to-hold Ratio

**Operation Current:** 750mA ~2.5A

**Maximum Voltage:** 16V/30V

**Temperature Range:** -40°C to 85°C

**Agency Approvals:** UL(E211981),  
C-UL(E211981),  
TUV (R3-50004084)

**Electrical characteristics(23°C)**

Part Number	Hold Current	Trip Current	Max. Time to Trip		Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
								R <sub>MIN</sub>	R <sub>1MAX</sub>
	I <sub>H</sub> ,A	I <sub>T</sub> ,A	at 8A	at 5xI <sub>H</sub>	I <sub>MAX</sub> ,A	V <sub>MAX</sub> ,V <sub>dc</sub>	P <sub>d</sub> , W	Ω	Ω
<b>FUSB075</b>	0.75	1.30	0.4	--	40	16/30	0.3	0.080	0.23
<b>FUSB090</b>	0.90	1.80	1.2	5.9	40	16/30	0.6	0.070	0.18
<b>FUSB110</b>	1.10	2.20	2.3	6.6	40	16/30	0.7	0.050	0.14
<b>FUSB120</b>	1.20	2.00	0.5	--	40	16/30	0.6	0.040	0.14
<b>FUSB135</b>	1.35	2.70	4.5	7.3	40	16/30	0.8	0.040	0.12
<b>FUSB155</b>	1.55	2.70	0.6	--	40	16/30	0.7	0.030	0.12
<b>FUSB160</b>	1.60	3.20	9.0	8.0	40	16/30	0.9	0.030	0.11
<b>FUSB185</b>	1.85	3.70	10.0	8.7	40	16/30	1.0	0.030	0.09
<b>FUSB250</b>	2.50	5.00	40.0	10.3	40	16/30	1.2	0.020	0.07

I<sub>H</sub>=Hold current-maximum current at which the device will not trip at 23°C still air.

I<sub>T</sub>=Trip current-minimum current at which the device will always trip at 23°C still air.

V<sub>MAX</sub>=Maximum voltage device can withstand without damage at its rated current.

I<sub>MAX</sub>= Maximum fault current device can withstand without damage at rated voltage (V max).

P<sub>d</sub>=Typical power dissipated from device when in the tripped state in 23°C still air environment.

R<sub>MIN</sub>=Minimum device resistance at 23°C.

R<sub>1MAX</sub>=Maximum device resistance at 23°C, 1 hour after tripping .

Physical specifications:

Lead material: Tin plated copper,24 AWG.

Soldering characteristics: Soldering ability per ANSI/J-STD 002

Solder heat withstand per IEC 68-2-20

FUSB 120 :Test Tb, method 1a, condition a; can withstand 5 second at 260°C ±5°C

All others: Test Tb, method 1a, condition a; can withstand 10 second at 260°C ±5°C

Insulating coating:Flame retardant epoxy polymer ,meets UL 94V-O requirement.

## FUSB Product Dimensions (millimeters)

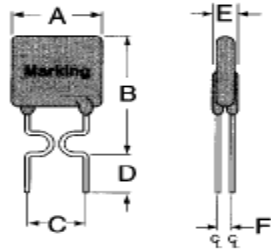


Figure 1

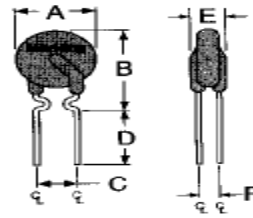


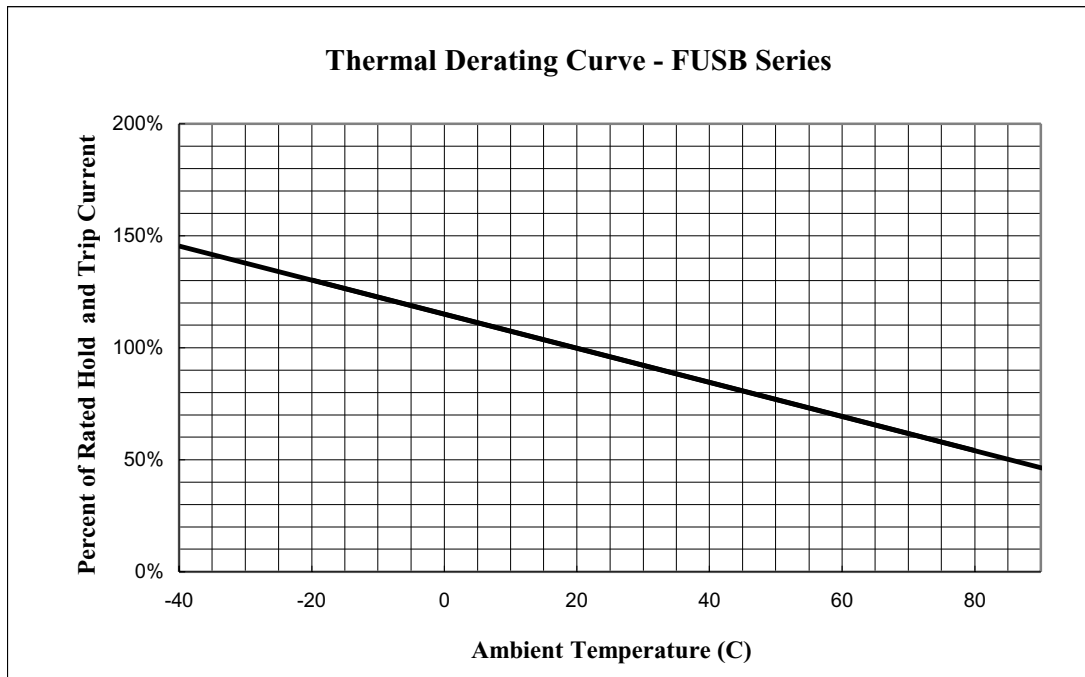
Figure 2

Lead Size :24AWG,  
 $\Phi$  0.51 mm Diameter

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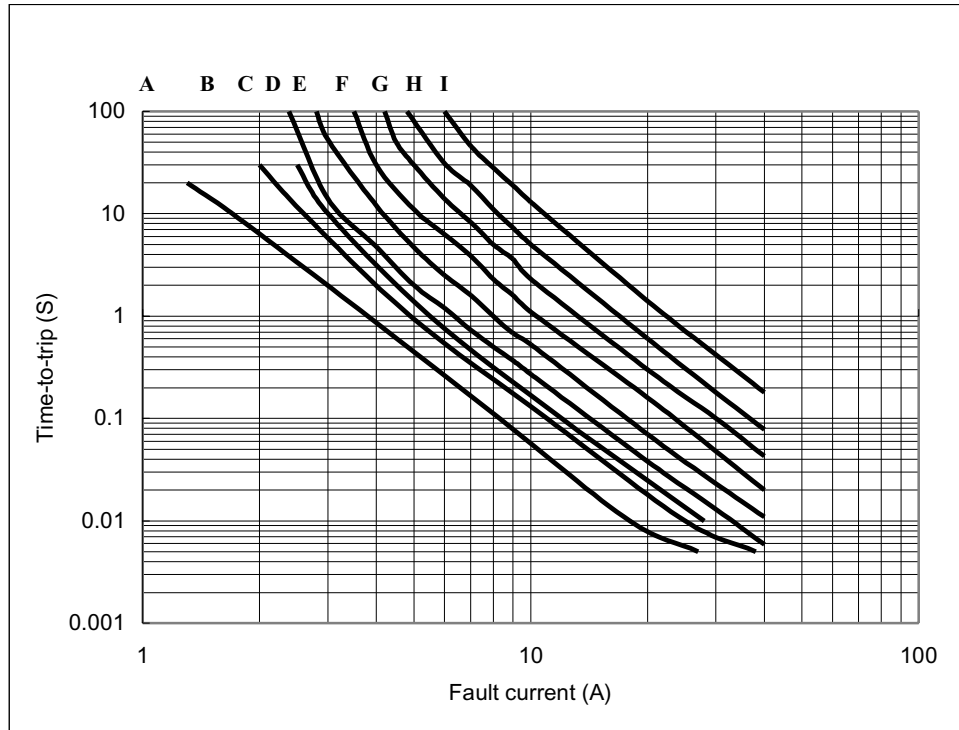
Part Number	Fig	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
FUSB075	2	6.9	11.4	5.1	7.6	3.0	0.8
FUSB090	1	7.4	12.2	5.1	7.6	3.0	0.8
FUSB110	1	7.4	14.2	5.1	7.6	3.0	0.8
FUSB120	2	6.9	11.7	5.1	7.6	3.0	0.8
FUSB135	1	8.9	13.5	5.1	7.6	3.0	0.8
FUSB155	2	6.9	11.7	5.1	7.6	3.0	0.8
FUSB160	1	8.9	15.2	5.1	7.6	3.0	0.8
FUSB185	1	10.2	15.7	5.1	7.6	3.0	0.8
FUSB250	1	11.4	18.3	5.1	7.6	3.0	0.8

## Thermal Derating Curve



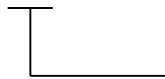
## Typical Time-To-Trip at 23°C

- A = FUSB075
- B = FUSB120
- C = FUSB155
- D = FUSB090
- E = FUSB110
- F = FUSB135
- G = FUSB160
- H = FUSB185
- I = FUSB250

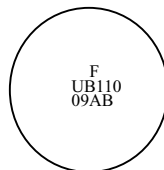


### Part numbering system

F U S B □ □ □



Current rating



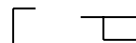
Example

### Part marking system

F ————— Fuzetec Logo

UB □ □ □

Part Identification



Product Family

□ □ □ □

Date Code/Lot Number

### Standard Package

P/N	Pcs /Bag	Reel/Tape
FUSB075	500	3K
FUSB090	500	3K
FUSB110	500	3K
FUSB120	500	3K
FUSB135	500	3K

P/N	Pcs /Bag	Reel/Tape
FUSB155	500	3K
FUSB160	500	3K
FUSB185	500	3K
FUSB250	500	3K