Radial Leaded PPTC
FUSB Series

RoHS

FEATURES

- Low resistance, fast trip time, lower trip-to-hold ratio
- Application: Low voltage USB equipment
- Operation Current: 750mA ~ 2.5A
- Maximum Voltage: 16V/30V
- Temperature Range: -40°C to 85°C

AGENCY RECOGNITION

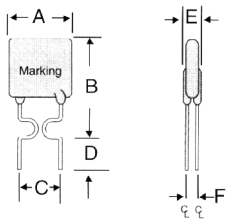
- UL (E211981)
- C-UL (E211981)
- TÜV (R3-50004084)

ELECTRICAL CHARACTERISTICS (23°C)

Part Number	Hold Current	Trip Current	Maximum time to trip		Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
								R_{MIN}	$R1_{MAX}$
	I_H, A	I_T, A	at 8A	at 5xI_H	I_{MAX}, A	V_{MAX}, Vdc	Pd, W	OHMS	OHMS
FUSB075F	0.75	1.3	0.4	--	40	16	0.3	0.080	0.230
FUSB090F	0.90	1.8	1.2	5.9	40	16/30	0.6	0.070	0.180
FUSB110F	1.10	2.2	2.3	6.6	40	16/30	0.7	0.050	0.140
FUSB120F	1.20	2.0	0.5	--	40	16	0.6	0.040	0.140
FUSB135F	1.35	2.7	4.5	7.3	40	16/30	0.8	0.040	0.120
FUSB155F	1.55	2.7	0.6	--	40	16	0.7	0.030	0.120
FUSB160F	1.60	3.2	9.0	8.0	40	16/30	0.9	0.030	0.110
FUSB185F	1.85	3.7	10.0	8.7	40	16/30	1.0	0.030	0.090
FUSB250F	2.50	5.0	40.0	10.3	40	16/30	1.2	0.020	0.070

I_H=Hold current-maximum current at which the device will not trip at 23°C still air.
I_T=Trip current-maximum current at which the device will always trip at 23°C still air.
V_{MAX}=Maximum voltage device can withstand without damage at its rated current.
I_{MAX}=Maximum fault current device can withstand without damage at rated voltage (V_{MAX}).
Pd=Typical power dissipated from device when in the tripped state in 23°C still air environment.
R_{MIN}=Minimum device resistance at 23°C.
$R1_{MAX}$=Maximum device resistance at 23°C, 1 hour after tripping.
Physical specifications:
Lead material: Tin plated Copper, 24AWG.
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, meets UL 94V-0 requirement.

Figure 1

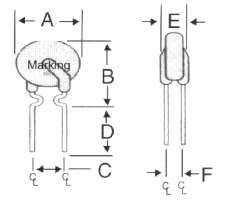


Lead Size: 24AWG (0.51mm)

FUSB PRODUCT DIMENSIONS (MILLIMETERS)

Part Number	Fig	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
FUSB075F	2	6.9	11.4	5.1	7.6	3.0	0.8
FUSB090F	1	7.4	12.2	5.1	7.6	3.0	0.8
FUSB110F	1	7.4	14.2	5.1	7.6	3.0	0.8
FUSB120F	2	6.9	11.7	5.1	7.6	3.0	0.8
FUSB135F	1	8.9	13.5	5.1	7.6	3.0	0.8
FUSB155F	2	6.9	11.7	5.1	7.6	3.0	0.8
FUSB160F	1	8.9	15.2	5.1	7.6	3.0	0.8
FUSB185F	1	10.2	15.7	5.1	7.6	3.0	0.8
FUSB250F	1	11.4	18.3	5.1	7.6	3.0	0.8

Figure 2



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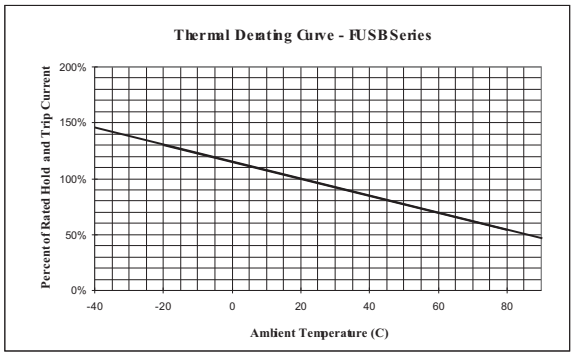
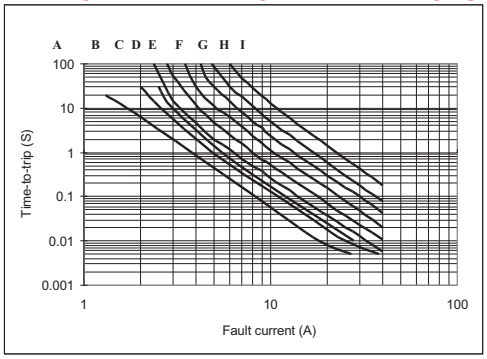
THERMAL DERATING CURVE



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

NOTE: All specification subject to change without notice.