FUZETEC TECHNOLOGY CO., LTD.	NO. PQ05-101E			1E
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## Radial Leaded PTC Resettable Fuse: FUSB Series

#### 1. Summary

(a) RoHS Compliant (Lead Free) Product

(b) Applications: Low voltage USB equipment and Computers & peripherals (c) Product Features: Low resistance, Fast trip time, Low trip-to-hold ratio

(d) Operation Current: 0.75A~2.50A (e) Maximum Voltage: 16V/30VDC (f) Temperature Range : -40°C to 85°C

### 2. Agency Recognition

UL: File No. E211981 C-UL: File No. E211981 TÜV: File No. R50004084

## 3. Electrical Characteristics (23°℃)

Part	Hold	•	Max.Time to Trip		Max.	Rated	Тур.	Resistance	
Number	Current	Current	Current	Time	Current	Voltage	Power	RMIN	R1MAX
	IH, A	IT, A	Α	Sec	IMAX, A	VMAX, VDC	Pd, W	Ohms	Ohms
FUSB075F	0.75	1.30	8.0	0.4	40	16	0.3	0.08	0.23
FUSB090F	0.90	1.80	8.0	1.2	40	16/30	0.6	0.07	0.18
FUSB110F	1.10	2.20	8.0	2.3	40	16/30	0.7	0.05	0.14
FUSB120F	1.20	2.00	8.0	0.7	40	16	0.6	0.04	0.14
FUSB135F	1.35	2.70	8.0	4.5	40	16/30	8.0	0.04	0.12
FUSB155F	1.55	2.70	7.8	2.2	40	16	0.7	0.03	0.12
FUSB160F	1.60	3.20	8.0	9.0	40	16/30	0.9	0.03	0.11
FUSB185F	1.85	3.70	8.0	10.0	40	16/30	1.0	0.03	0.09
FUSB250F	2.50	5.00	8.0	40.0	40	16/30	1.2	0.02	0.07

I<sub>H</sub>=Hold current-maximum current at which the device will not trip at 23℃ still air. I<sub>T</sub>=Trip current-minimum current at which the device will always trip at 23℃ 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 tripped state in 23°C still air environment.

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

R1<sub>MAX</sub>=Maximum device resistance at 23°C, 1 hour after tripping.

Physical specifications:

Lead material: Tin plated copper clad steel,24 AWG.

Soldering characteristics: Solder ability per ANSI/J-STD 002 Solder heat withstand per IEC 68-2-20

Insulating coating:Flame retardant epoxy polymer, meets UL 94V-0 requirement.

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# 4. Production Dimensions (millimeter)

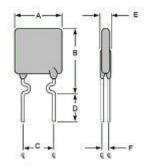


Fig.1

Lead Size: 24AWG

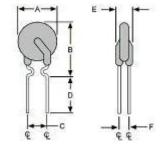


Fig.2

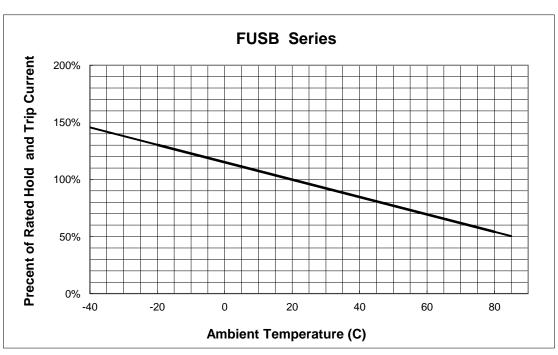
Lead Size: 24AWG

Φ 0.51 mm Diameter

Ф 0.51	mm D	iameter
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Part	Fi.e.	Α	В	С	D	E	F	
Number	Fig 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	

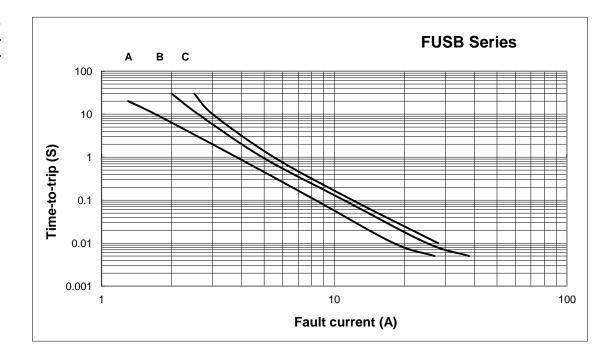
## **5. Thermal Derating Curve**



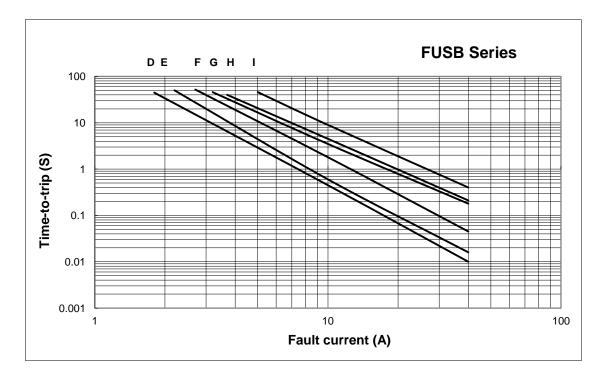
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A = FUSB075F B = FUSB120F C = FUSB155F



D = FUSB090F E = FUSB110F F = FUSB135F G = FUSB160F H = FUSB185F I = FUSB250F



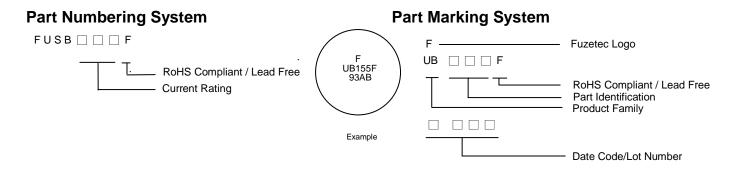
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### 7. Material Specification

Lead material: Tin plated copper clad steel, 24 AWG Soldering characteristics: MIL-STD-202, Method 208E

Insulating coating:Flame retardant epoxy, meet UL-94V-0 requirement

## 8. Part Numbering and Marking System



Note: Font on Marking may look slightly different due to fine turnings of each Marking printer.

- Warning: Each product should be carefully evaluated and tested for their suitability of application.
  - Operation beyond the specified maximum rating or improper use may result in damage and possible electrical arcing and/or flame.



- Avoid contact of PPTC device with chemical solvent, including some inert material such as silicone based oil, lubricant and etc. Prolonged contact will damage the device performance.₽
- Additional protection mechanism are strongly recommended to be used in conjunction with the PPTC device for protection against abnormal or failure conditions.
- Avoid use of PPTC device in a constrained space such as potting material, housing and containers where have limited space to accommodate device thermal expansion and/or contraction. ₽

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NIS5431MT1TXG SMD250-2 0ZCM00001FF2G 0ZCM0003FF2G 0ZCM0004FF2G BK60-017-DZ-E0.6 F95456-000 LVR100S RS30-090 RS30-600 RS30-700 RS30-800 RS30-900 RS60RB-005 RS60RB-010 RS60RB-020 RS60RB-025 RS60RB-050 RS60RB-075 RS60RB-160 SMD1206-300C-12V SB250-145 SB250-030 SB250-040 SB250-200 SB250-600 SMD0805-005-24V SMD0805-050-16V SMD1210-005-60V SMD0805-005 R60-375 SMD0805K110SF6V