

 FUZETEC TECHNOLOGY CO., LTD.	NO.	PQ13-01E		
	Product Specification and Approval Sheet	Version	4	Page

Radial Leaded PTC Resettable Fuse : FBR Series

1. Summary

- (a) Applications : Cable Telephone Electronics/Cable Power Passing Tap
- (b) Product Features : Low hold current, Solid state, Radial leaded product ideal for up to 90V
- (c) Operation Current : 100mA~900mA
- (d) Maximum Voltage : 90V
- (e) Temperature Range : -40°C to 85°C

2. Agency Recognition

UL : File No. Pending
C-UL: File No. Pending
TÜV: File No. Pending

3. Electrical Characteristics (23°C)

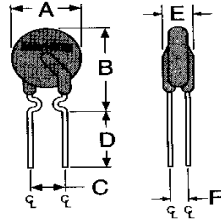
Part Number	Hold Current	Trip Current	Max.Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
	I_H, A	I_T, A	at 5x I_H	I_{MAX}, A	V_{MAX}, Vdc	P_d, W	R_{MIN}	R_{MAX}
							ohms	ohms
FBR100(U)	0.10	0.20	10	40	90	0.38	2.50	7.50
FBR150(U)	0.15	0.35	10	40	90	0.70	2.40	7.00
FBR200(U)	0.20	0.45	10	40	90	0.80	1.50	4.50
FBR250(U)	0.25	0.55	10	40	90	0.90	1.25	3.70
FBR350(U)	0.35	0.75	10	40	90	1.30	0.90	2.50
FBR550(U)	0.55	1.20	12	40	90	1.50	0.45	1.50
FBR750(U)	0.75	1.60	13	40	90	1.70	0.30	1.20
FBR900(U)	0.90	2.00	20	40	90	2.30	0.15	0.70

I_H =Hold current-maximum current at which the device will not trip at 23°C still air.
 I_T =Trip current-minimum 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}).
 P_d =Typical power dissipated from device when in tripped state in 23°C still air environment.
 R_{MIN} =Minimum device resistance at 23°C.
 R_{MAX} =Maximum device resistance at 23°C, 1 hour after tripping .
 Physical specifications:
 Lead material: FBR100~FBR900 Tin plated copper, 20 AWG.
 Soldering characteristics: MIL-STD-202, Method 208E.
 Insulating coating: Flame retardant epoxy, meets UL-94V-0 requirement.

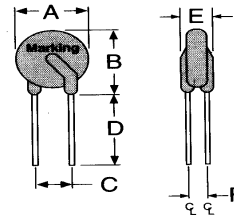
NOTE : Specification subject to change without notes



4. Production Dimensions (millimeter)



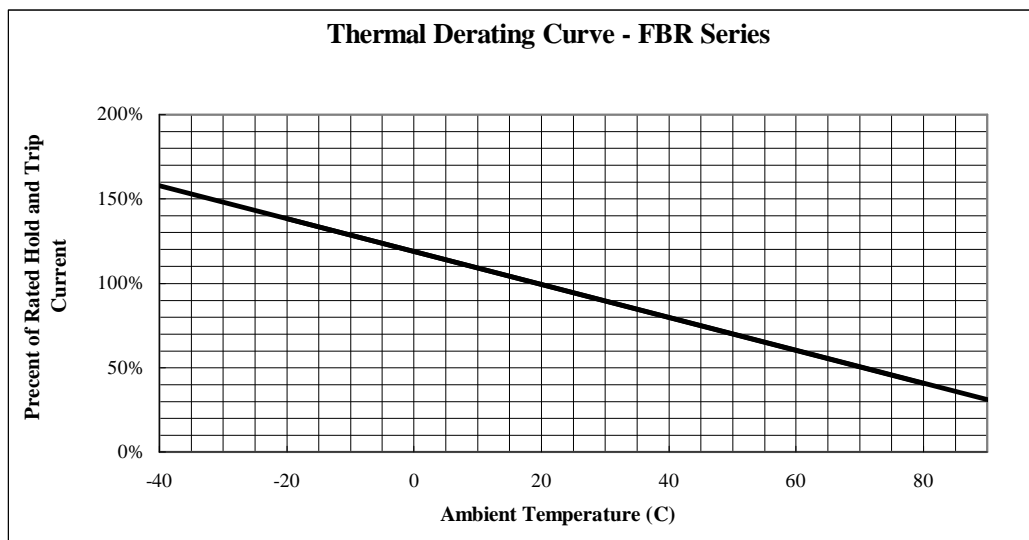
FBR 100-90 ~ FBR 350-90
Lead Size : 24AWG
Φ 0.51 mm Diameter



FBR 550-90 ~ FBR 900-90
Lead Size : 20AWG
Φ 0.81 mm Diameter

Part Number	A	B	C	D	E	F
	Maximum	Maximum	Typical	Minimum	Maximum	Typical
FBR100(U)	7.4	12.7	5.1	7.6	3.1	1.4
FBR150(U)	9.0	12.7	5.1	7.6	3.6	1.4
FBR200(U)	9.0	12.7	5.1	7.6	3.6	1.4
FBR250(U)	9.0	12.7	5.1	7.6	3.6	1.4
FBR350(U)	9.0	12.7	5.1	7.6	3.6	1.4
FBR550(U)	10.9	14.0	5.1	7.6	3.6	1.4
FBR750(U)	11.9	15.5	5.1	7.6	3.6	1.4
FBR900(U)	13.0	16.0	5.1	7.6	3.6	1.4

5. Thermal Derating Curve

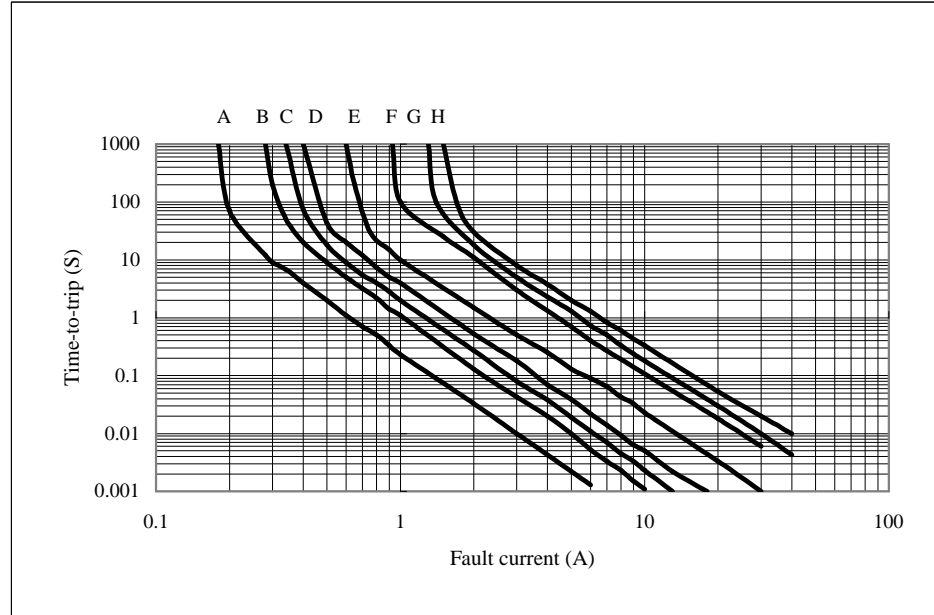


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6. Typical Time-To-Trip at 23°C

- A = FBR100(U)
- B = FBR150(U)
- C = FBR200(U)
- D = FBR250(U)
- E = FBR350(U)
- F = FBR550(U)
- G = FBR750(U)
- H = FBR900(U)



7. Material Specification

Lead material : FBR100~FBR900 Tin plated copper,20 AWG.
 Soldering characteristics:MIL-STD-202, Method 208E.
 Insulating coating:Flame retardant epoxy, meets UL-94V-0 requirement

8. Part Numbering and Marking System

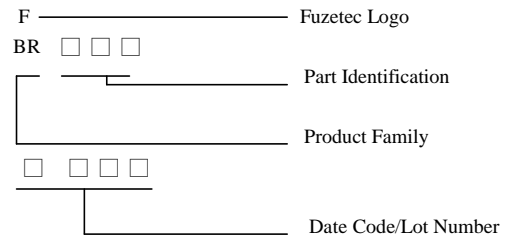
Part Numbering System



Part Marking System



Example



- Warning:** -Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.
 -PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.
 - Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.

NOTE : Specification subject to change without notes

Authorized Distributor in Korea : Parts Bank Co., Ltd.☐
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