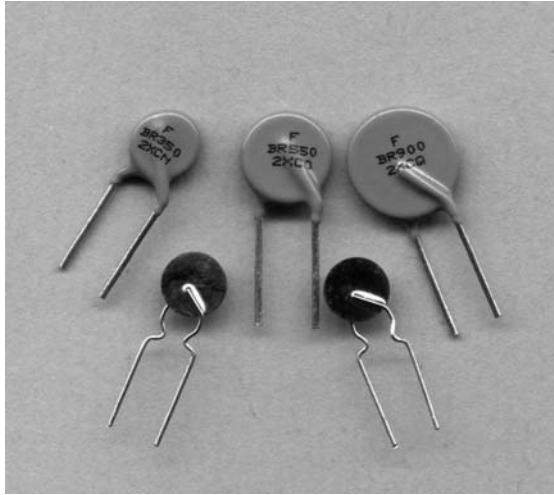


Radial Leaded PTC FBR Series



Application:

Cable /Telephone Electronics: Cable Power
Passing Tap.

Product Features:

Low hold current, Solid state, Radial-leaded product
ideal for up to 90V

Operation Current: 100m~900mA

Maximum Voltage: 90V

Temperature Range: -40°C to 85°C

Agency Recognition: UL (E211981)

C-UL(E211981)

Electrical Characteristics (23°C)

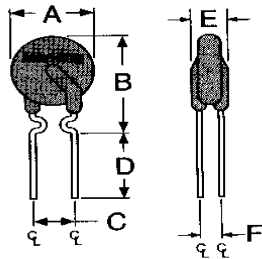
Part Number	Hold Current	Trip Current	Max.Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
							R _{MIN}	R _{1MAX}
	I _H , A	I _T , A	at 5xI _H	I _{MAX} , A	V _{MAX} ,Vdc	P _d , w	Ω	Ω
FBR100(U)	0.10	0.20	10	40	90	0.38	2.50	7.50
FBR150(U)	0.15	0.35	10	40	90	0.70	2.40	7.00
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_{1MAX}=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.

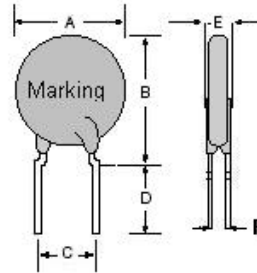
Radial Leaded PTC FBR Series



Production Dimensions (millimeter)



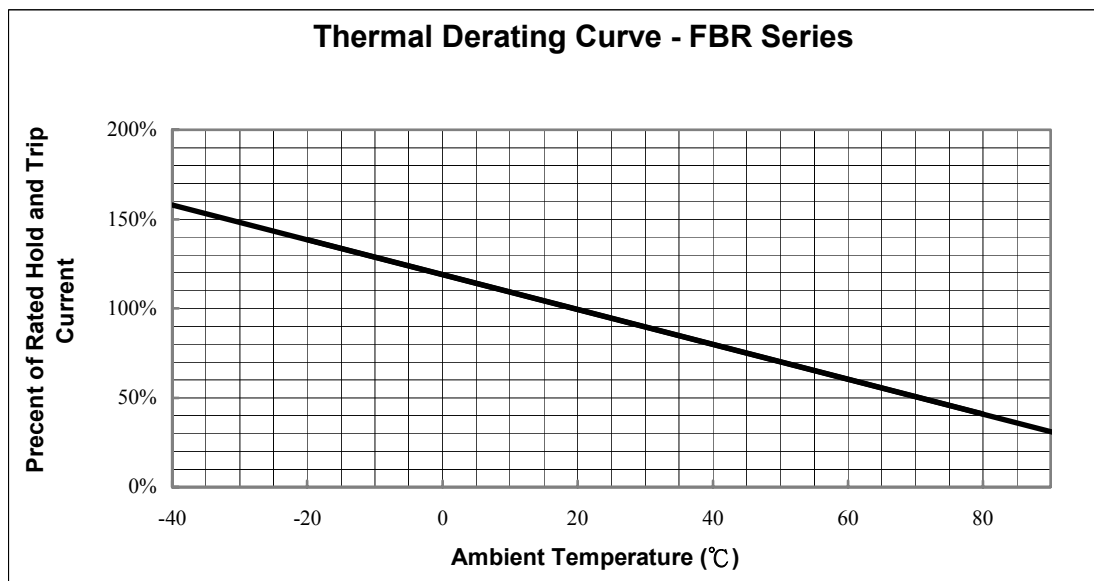
FBR 100-90 ~ FBR 350-90
Lead Size: 24AWG
Φ 0.51 mm Diameter



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	3.6	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

Thermal Derating Curve

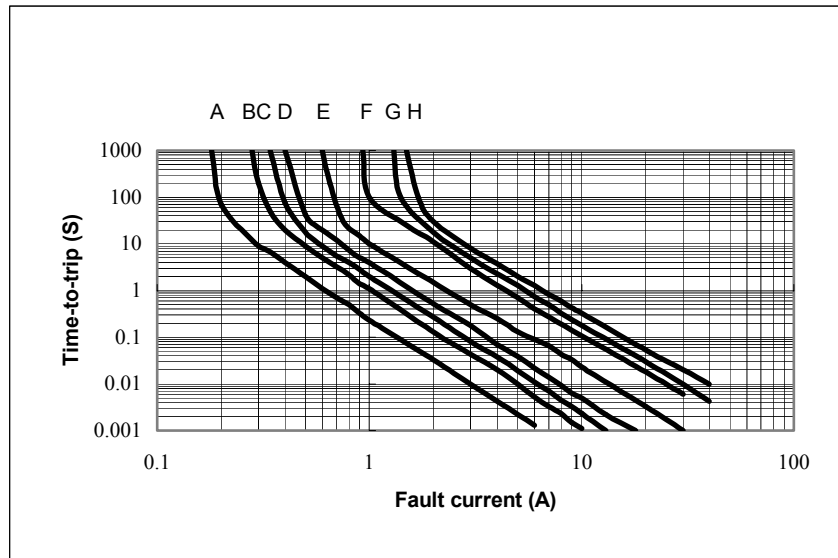


Radial Leaded PTC FBR Series



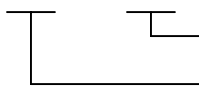
Typical Time-To-Trip at 23°C

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



Part Numbering System

FBR □ □ □ - □ □



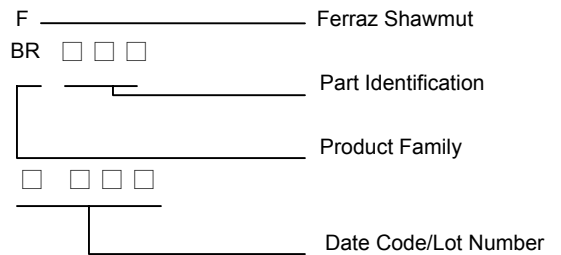
Voltage rating

Current rating



Example

Part Marking System



Standard Package

P/N	Pcs /Bag	Reel/Tape
FBR100 (U)	500	2.5K
FBR150 (U)	500	2.5K
FBR200 (U)	500	2.5K
FBR250 (U)	500	2.5K

P/N	Pcs /Bag	Reel/Tape
FBR350 (U)	500	2.5K
FBR550 (U)	500	2K
FBR750 (U)	500	2K
FBR900 (U)	500	2K

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.