



RESETTABLE FUSE

RADIAL LEADED PTC BX/BU MODEL



E175689



50012736

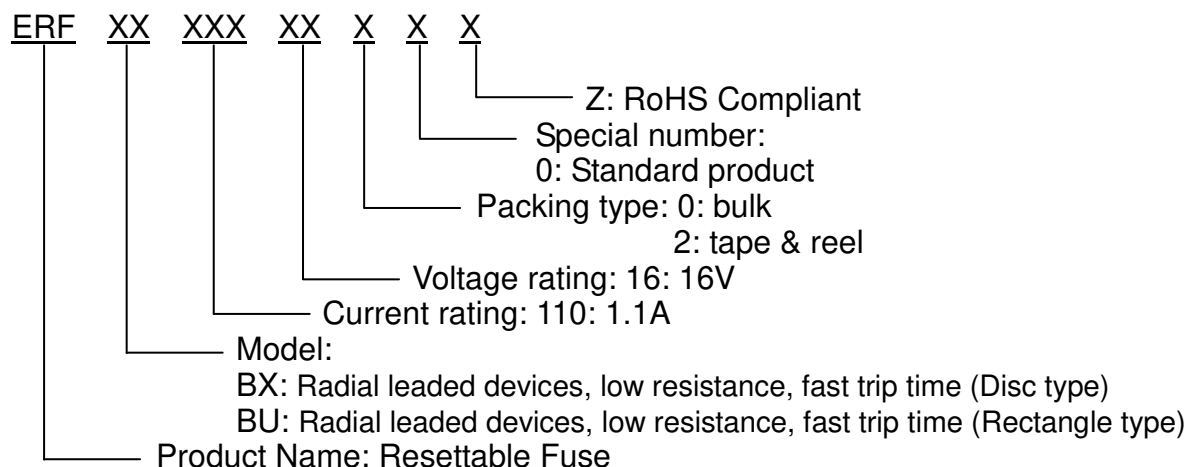
FEATURES

- Radial Leaded, lower resistance, fast trip time and solid state
- Operation current: 750mA~2.5A
- Maximum Voltage: 16V & 30V
- Temperature range: -40°C to 85°C
- Cured, flame retardant epoxy polymer insulating material meets UL 94V-0 requirement
- Bulk packaging, tape and reel available on most models

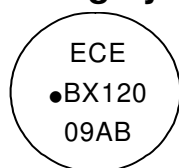
APPLICATIONS

- ◆ Almost anywhere there is a low voltage power supply and a load to be protected including:
 - Computers & peripherals
 - USB hosts: desktop PC 、 notebook
 - USB self-powered hubs: monitor 、 stand-alone hub
 - USB bus- powered hubs: keyboard
 - USB function: CCD camera 、 joystick 、 scanner

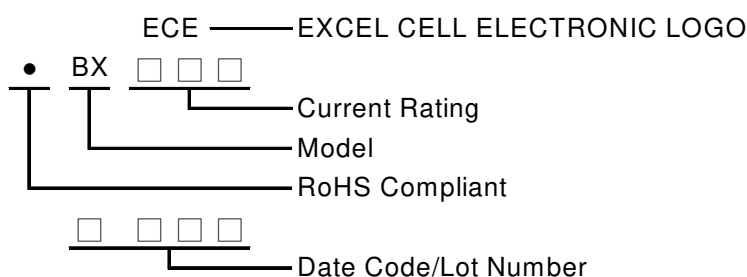
PART NUMBERING SYSTEM



Marking system



Example





RESETTABLE FUSE

■ 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 8A	I _{MAX} , A	V _{MAX} , V _{dc}	P _d , W	Ω	Ω
BX075	0.75	1.30	0.4	40	16	0.3	0.080	0.23
BX120	1.20	2.00	0.7	40	16	0.6	0.040	0.14
BX155	1.55	2.70	2.2	40	16	0.7	0.030	0.12
BU090	0.90	1.80	1.2	40	16/30	0.6	0.070	0.18
BU110	1.10	2.20	2.3	40	16/30	0.7	0.050	0.14
BU135	1.35	2.70	4.5	40	16/30	0.8	0.040	0.12
BU160	1.60	3.20	9.0	40	16/30	0.9	0.030	0.11
BU185	1.85	3.70	10.0	40	16/30	1.0	0.030	0.09
BU250	2.50	5.00	40.0	40	16/30	1.2	0.020	0.07

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 rated current.

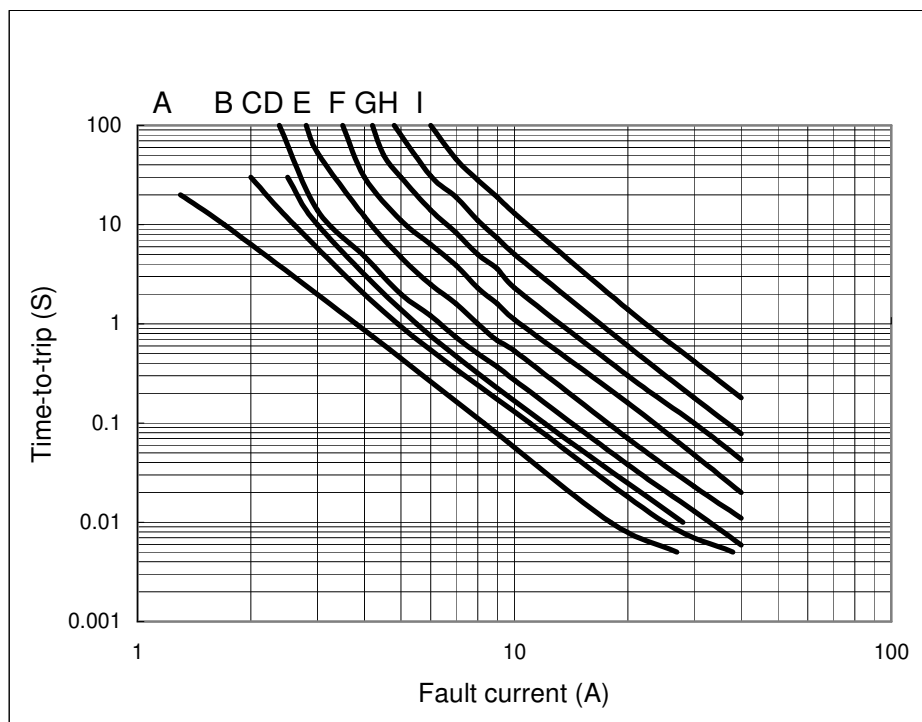
I_{MAX}= Maximum fault current device can withstand without damage at rated voltage (V max).

P_d=Typical power dissipated from device when in the tripped state in 23°C still air environment.

R_{MIN}=Minimum device resistance at 23°C.

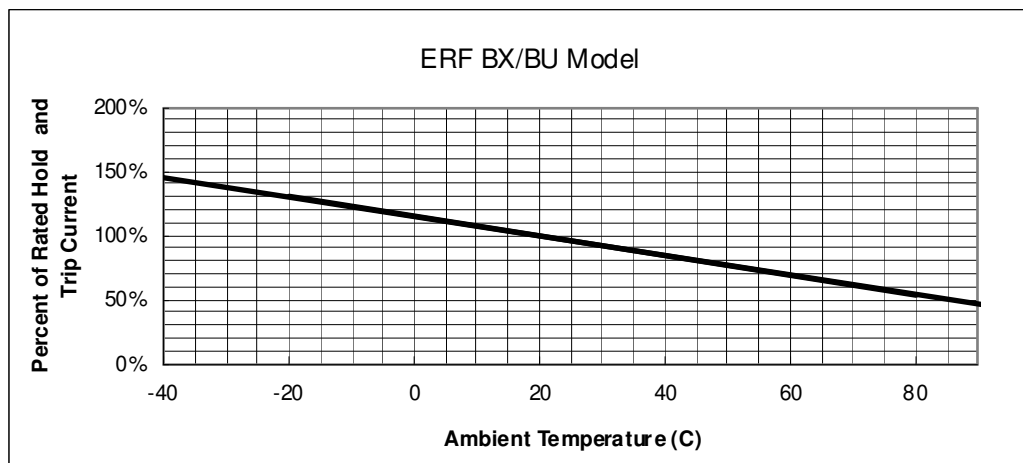
R_{1MAX}=Maximum device resistance at 23°C 1 hour after tripping

■ Typical time-to-trip-at 23°C



A=BX075
B=BX120
C=BX155
D=BU090
E=BU110
F=BU135
G=BU160
H=BU185
I=BU250

Thermal Derating Curve



BX / BU Product Dimensions (UNIT: mm)

Part Number	A	B	C	D	E	F	Figure
	Maximum	Maximum	Typical	Minimum	Maximum	Typical	
BX075	6.9	11.4	5.1	7.6	3.0	0.8	2
BX120	6.9	11.7	5.1	7.6	3.0	0.8	2
BX155	6.9	11.7	5.1	7.6	3.0	0.8	2
BU090	7.4	12.2	5.1	7.6	3.0	0.8	1
BU110	7.4	14.2	5.1	7.6	3.0	0.8	1
BU135	8.9	13.5	5.1	7.6	3.0	0.8	1
BU160	8.9	15.2	5.1	7.6	3.0	0.8	1
BU185	10.2	15.7	5.1	7.6	3.0	0.8	1
BU250	11.4	18.3	5.1	7.6	3.0	0.8	1

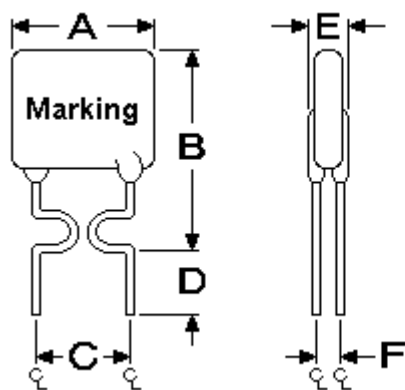


Figure 1

BU Model

- Lead Size: 24AWG
- $\phi 0.51$ mm Diameter

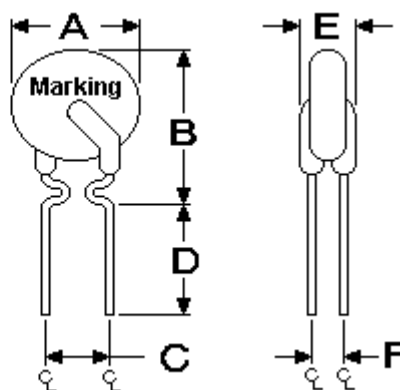


Figure 2

BX Model

- Lead Size: 24AWG
- $\phi 0.51$ mm Diameter



■ **Standard Package for Reference**

P/N	Pcs/Bag	Reel/Tape	P/N	Pcs/Bag	Reel/Tape
BX075	500	3.0K	BX155	500	3.0K
BU090	500	3.0K	BU160	500	3.0K
BU110	500	3.0K	BU185	500	3.0K
BX120	500	3.0K	BU250	500	3.0K
BU135	500	3.0K			