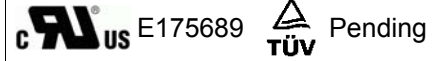


## RADIAL LEADED PTC FT MODEL



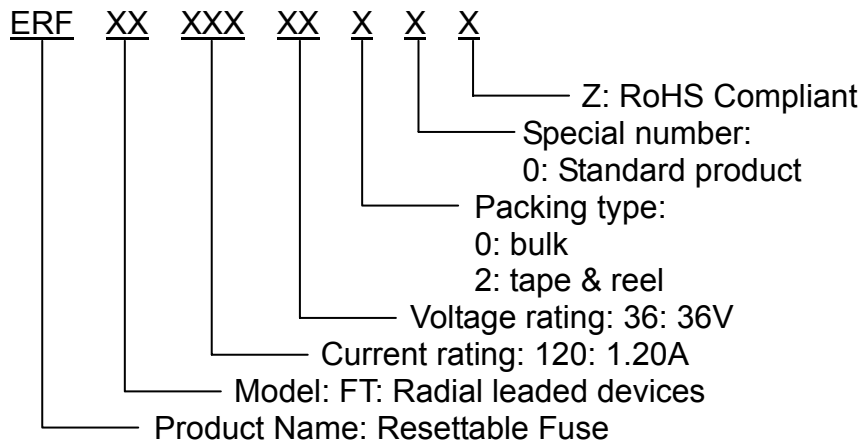
### FEATURES

- Fast trip time, Lower trip-to-hold ratio.
- Radial-leaded product ideal for up to 36V
- Operation current: 0.5A~2.5A
- Maximum voltage: 36V
- 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

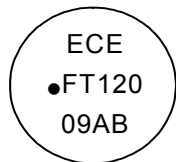
### APPLICATIONS

- IEEE 1394 FireWire
- Computer & Consumer electronics

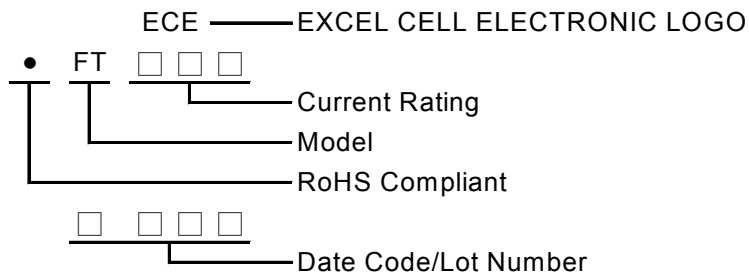
### PART NUMBERING SYSTEM



### Marking system



Example



\*If the current rating is under 1Amp there will be no "ECE" logo shown on the body.

**NOTE: Specifications subject to change without prior notice.**

## ■ 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 $5xI_H$        | $I_{MAX}, A$    | $V_{MAX}, V_{DC}$ | $P_d, W$      | $R_{MIN}$            | $R_{1MAX}$ |
|             |              |              |                   |                 |                   |               | $\Omega$             | $\Omega$   |
| FT050-36    | 0.50         | 1.00         | 5.0               | 40              | 36                | 0.67          | 0.140                | 0.448      |
| FT075-36    | 0.75         | 1.50         | 4.0               | 40              | 36                | 0.71          | 0.115                | 0.368      |
| FT090-36    | 0.90         | 1.80         | 3.5               | 40              | 36                | 0.74          | 0.090                | 0.288      |
| FT120-36    | 1.20         | 2.30         | 3.5               | 40              | 36                | 0.78          | 0.074                | 0.180      |
| FT135-36    | 1.35         | 2.50         | 4.5               | 40              | 36                | 0.84          | 0.059                | 0.143      |
| FT160-36    | 1.60         | 2.75         | 4.5               | 40              | 36                | 0.86          | 0.041                | 0.131      |
| FT190-36    | 1.90         | 3.00         | 3.5               | 40              | 36                | 0.90          | 0.045                | 0.092      |
| FT220-36    | 2.20         | 3.50         | 6.5               | 40              | 36                | 0.95          | 0.025                | 0.080      |
| FT250-36    | 2.50         | 4.00         | 8.0               | 40              | 36                | 0.99          | 0.020                | 0.064      |

$I_H$ =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).

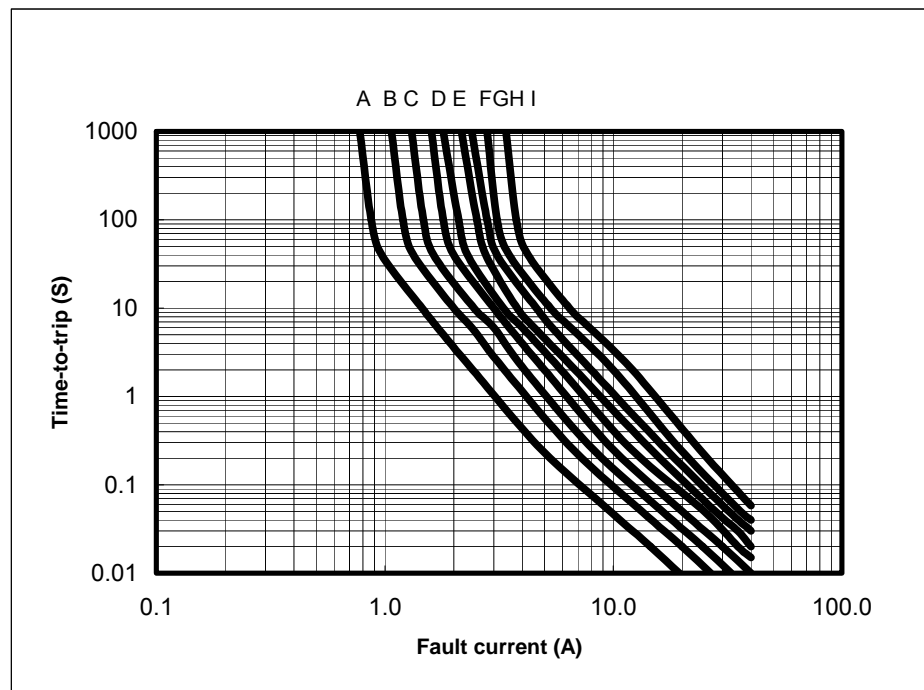
$P_d$ =Typical power dissipated from device when in the tripped state in 23°C still air environment.

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

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

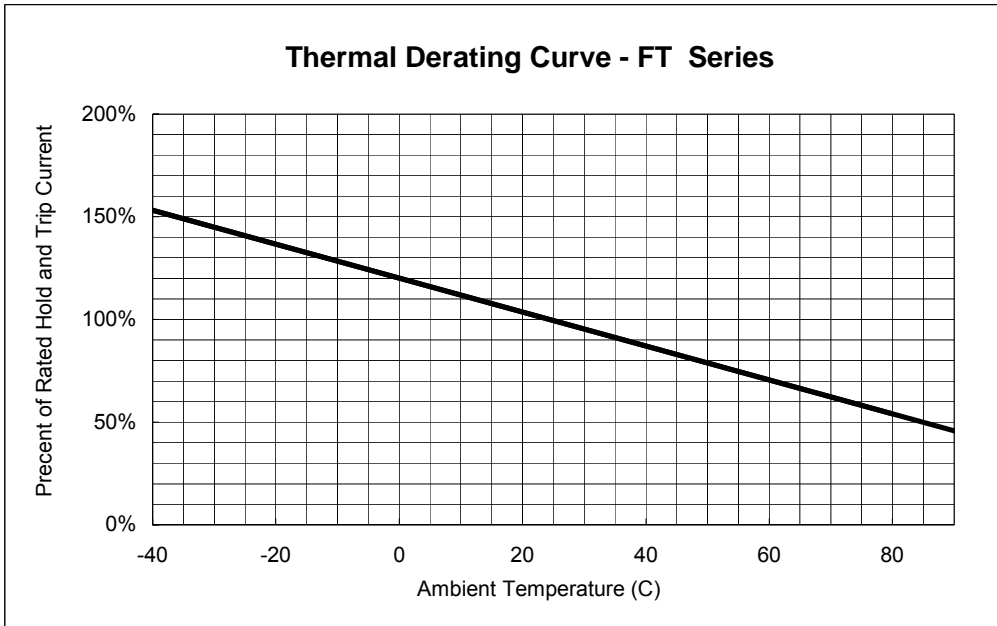
## ■ Typical Time-To-Trip at 23°C

A=FT050-36  
 B=FT075-36  
 C=FT090-36  
 D=FT120-36  
 E=FT135-36  
 F=FT160-36  
 G=FT190-36  
 H=FT220-36  
 I=FT250-36



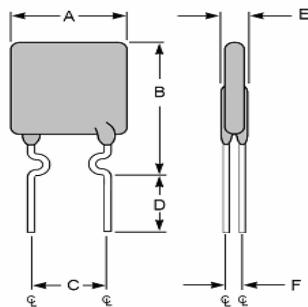
**NOTE: Specifications subject to change without prior notice.**

## ■ Thermal Derating Curve



## ■ FT Product Dimensions (UNIT: mm)

| Part Number | A       | B       | C       | D       | E       | F       |
|-------------|---------|---------|---------|---------|---------|---------|
|             | Maximum | Maximum | Typical | Minimum | Maximum | Typical |
| FT050-36    | 7.4     | 12.2    | 5.1     | 7.6     | 3.0     | 1.1     |
| FT075-36    | 7.4     | 12.2    | 5.1     | 7.6     | 3.0     | 1.1     |
| FT090-36    | 7.4     | 12.2    | 5.1     | 7.6     | 3.0     | 1.1     |
| FT120-36    | 7.4     | 12.2    | 5.1     | 7.6     | 3.0     | 1.1     |
| FT135-36    | 7.4     | 14.2    | 5.1     | 7.6     | 3.0     | 1.1     |
| FT160-36    | 7.4     | 14.0    | 5.1     | 7.6     | 3.0     | 1.1     |
| FT190-36    | 9.0     | 13.5    | 5.1     | 7.6     | 3.0     | 1.1     |
| FT220-36    | 10.0    | 17.5    | 5.1     | 7.6     | 3.0     | 1.1     |
| FT250-36    | 10.0    | 19.5    | 5.1     | 7.6     | 3.0     | 1.1     |



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

**NOTE: Specifications subject to change without prior notice.**

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