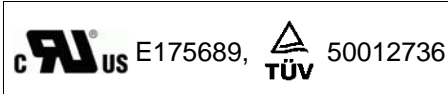


## AXIAL LEADED PTC TN MODEL



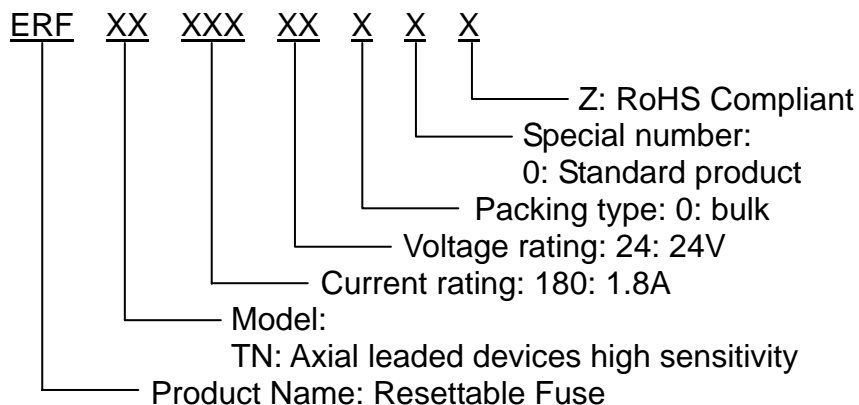
### ■ FEATURES

- Axial Leaded, low profile, solid state
- Operation current: 0.7A~3.4A
- Maximum voltage: 24V
- Temperature range -40°C to 85°C
- Cured, flame retardant epoxy polymer insulating material meets UL 94V-0 requirement
- Bulk packing on most models

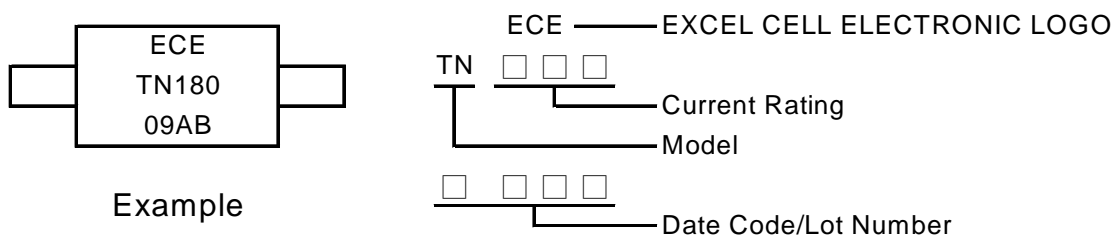
### ■ APPLICATIONS

- Rechargeable Battery Packs Protection
- Lithium Cell and Battery packs
- Provide Overcurrent Protection with 100°C trip temperature

### ■ PART NUMBERING SYSTEM



### ■ Marking system



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

## ■ Electrical characteristics(23°C)

Part Number	Hold Current	Trip Current	Rated Voltage	Maximum Current	Typical Power	Resistance Tolerance		
	$I_H$ , A	$I_T$ , A	$V_{MAX}$ , V	$I_{MAX}$ , A	$P_d$ , W	$R_{MIN}$	$R_{MAX}$	$R_{1MAX}$
						$\Omega$	$\Omega$	$\Omega$
<b>TN070</b>	0.7	1.5	24	100	1.1	0.100	0.200	0.340
<b>TN100</b>	1.00	2.5	24	100	1.5	0.070	0.130	0.260
<b>TN180</b>	1.8	3.8	24	100	2.0	0.040	0.068	0.120
<b>TN190</b>	1.9	4.2	24	100	1.9	0.030	0.057	0.100
<b>TN260</b>	2.6	5.2	24	100	2.3	0.025	0.042	0.076
<b>TN300</b>	3.0	6.3	24	100	2.0	0.015	0.031	0.055
<b>TN310</b>	3.1	6.0	24	100	2.5	0.018	0.030	0.055
<b>TN340</b>	3.4	6.8	24	100	2.7	0.016	0.027	0.050

$I_H$ =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).

$P_d$ =Maximum 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=TN070

B=TN100

C=TN180

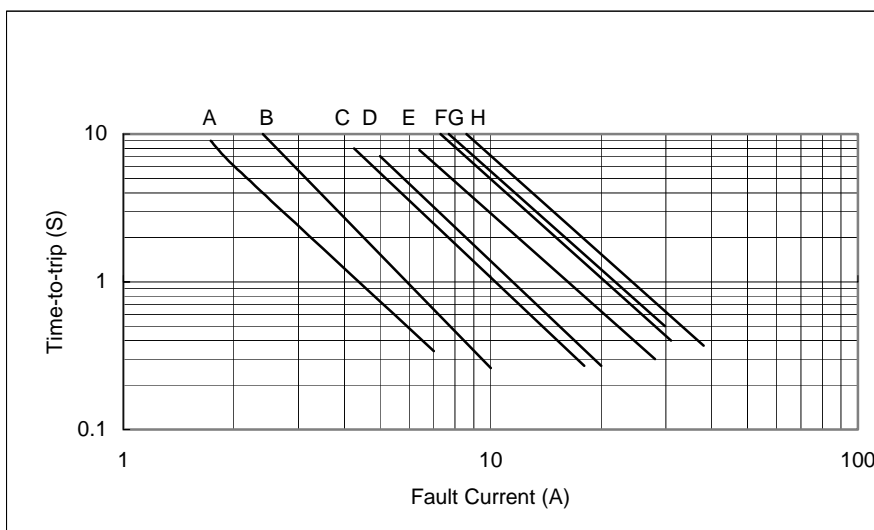
D=TN190

E=TN260

F=TN300

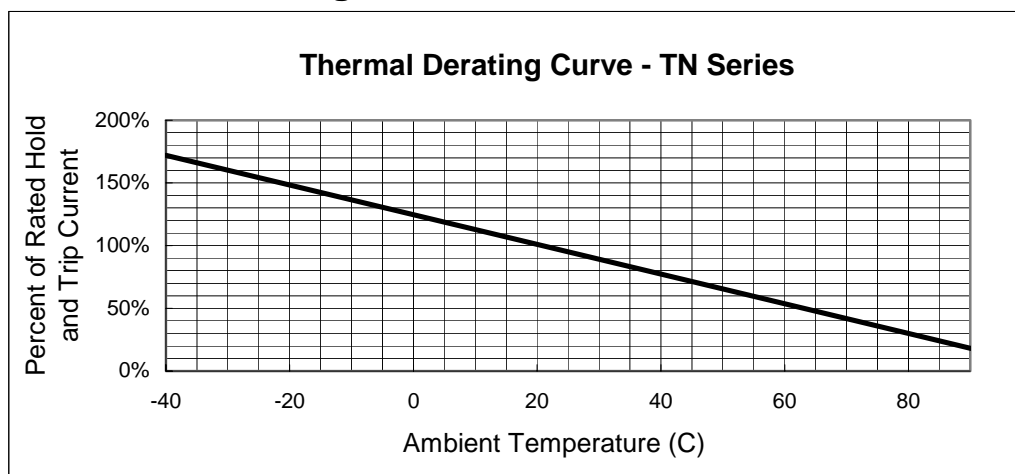
G=TN310

H=TN340



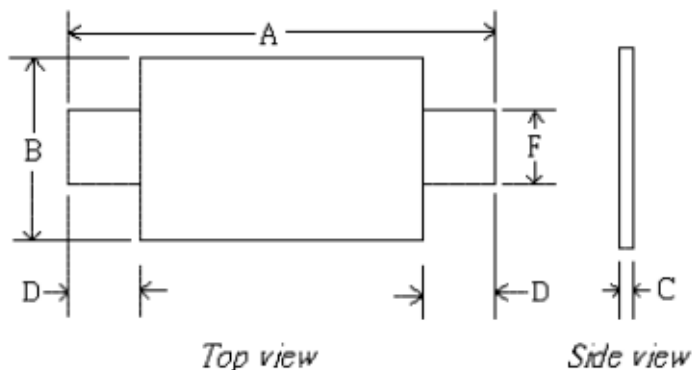
**NOTE: Specifications subject to change without prior notice.**

## ■ Thermal Derating Curve



## ■ TN Product Dimensions (UNIT: mm)

Part Number	A		B		C		D		F	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
<b>TN070</b>	19.9	22.1	4.9	5.2	0.7	1.2	5.5	7.5	3.9	4.1
<b>TN100</b>	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1
<b>TN180</b>	24.0	26.0	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1
<b>TN190</b>	21.3	23.4	10.2	11.0	0.5	1.1	5.0	7.6	4.8	5.4
<b>TN260</b>	24.0	26.0	10.8	11.9	0.6	1.0	5.0	7.0	5.9	6.1
<b>TN300</b>	28.4	31.8	13.0	13.5	0.5	1.1	6.3	8.9	6.0	6.6
<b>TN310</b>	24.0	26.0	14.8	15.9	0.6	1.0	5.0	7.0	5.9	6.1
<b>TN340</b>	24.0	26.0	14.8	15.9	0.6	1.0	4.0	5.0	5.9	6.1



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