AXIAL LEADED PTC
TN MODEL

c UL us E175689, TÜV 50012736

■ FEATURES

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

■ APPLICATIONS

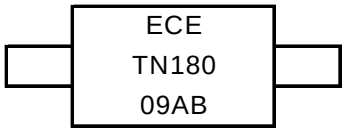
- Rechargeable Battery Packs Protection
- Lithium Cell and Battery packs
- Provide Overcurrent Protection with 100℃ trip temperature

■ PART NUMBERING SYSTEM

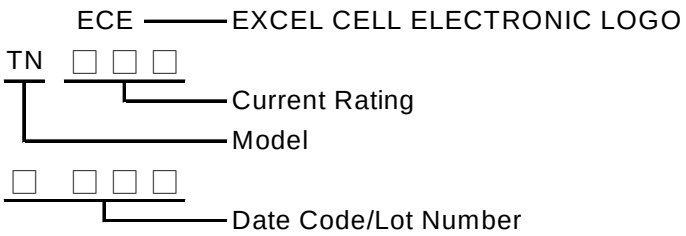
ERF XX XXX XX X X X

- ERF: Product Name: Resettable Fuse
- XX: Model: TN: Axial leaded devices high sensitivity
- XXX: Current rating: 180: 1.8A
- XX: Voltage rating: 24: 24V
- X: Packing type: 0: bulk
- X: Special number: 0: Standard product
- X: Z: RoHS Compliant

■ Marking system



Example



NOTE: Specifications subject to change without prior notice.

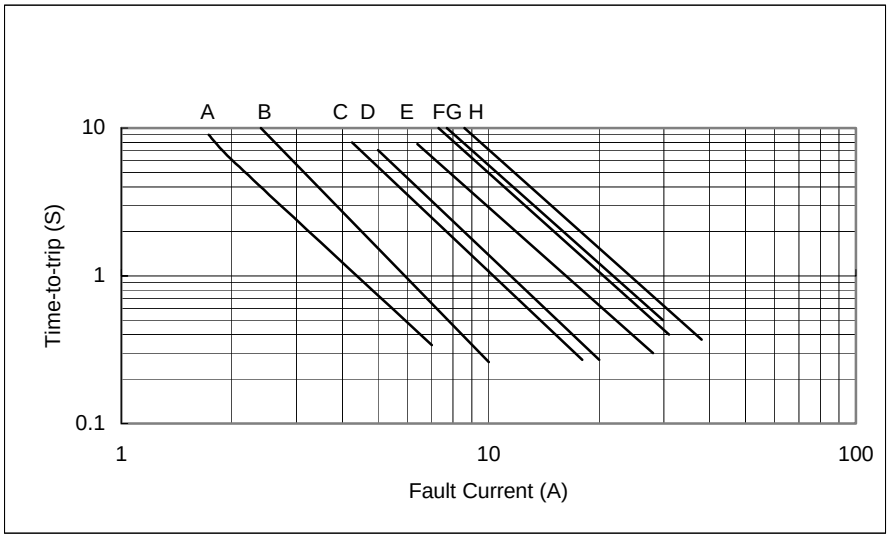
■ Electrical characteristics(23℃)

Part Number	Hold Current	Trip Current	Rated Voltage	Maximum Current	Typical Power	Resistance Tolerance		
						RMIN	RMAX	R1MAX
	IH, A	IT, A	VMAX, V	IMAX, A	Pd, W	Ω	Ω	Ω
TN070	0.7	1.5	24	100	1.1	0.100	0.200	0.340
TN100	1.00	2.5	24	100	1.5	0.070	0.130	0.260
TN180	1.8	3.8	24	100	2.0	0.040	0.068	0.120
TN190	1.9	4.2	24	100	1.9	0.030	0.057	0.100
TN260	2.6	5.2	24	100	2.3	0.025	0.042	0.076
TN300	3.0	6.3	24	100	2.0	0.015	0.031	0.055
TN310	3.1	6.0	24	100	2.5	0.018	0.030	0.055
TN340	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℃ still air.
I_T=Trip current-minimum current at which the device will always trip at 23℃ 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).
Pd=Maximum power dissipated from device when in the tripped state in 23℃ still air environment.
R_{MIN}=Minimum device resistance at 23℃.
$R1_{MAX}$=Maximum device resistance at 23℃ 1 hour after tripping.

■ Typical Time-To-Trip at 23℃

A=TN070
B=TN100
C=TN180
D=TN190
E=TN260
F=TN300
G=TN310
H=TN340



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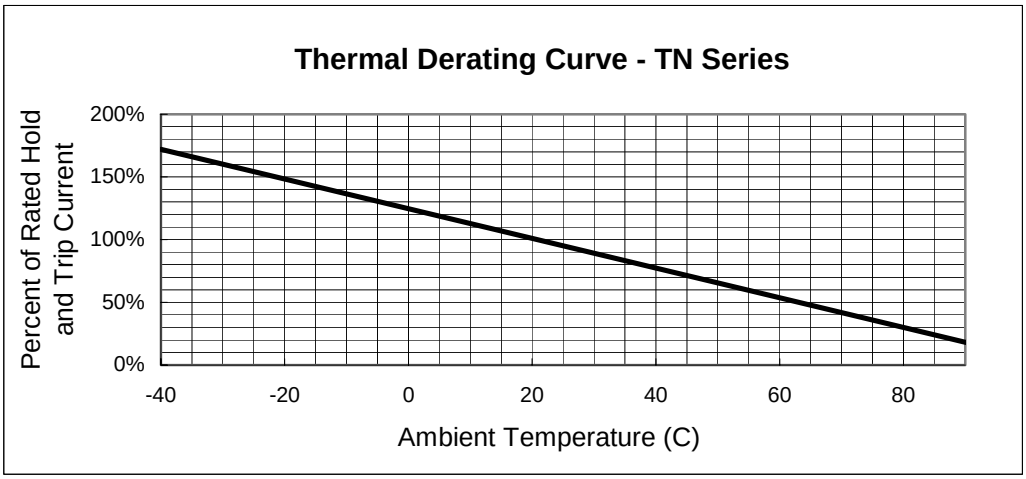
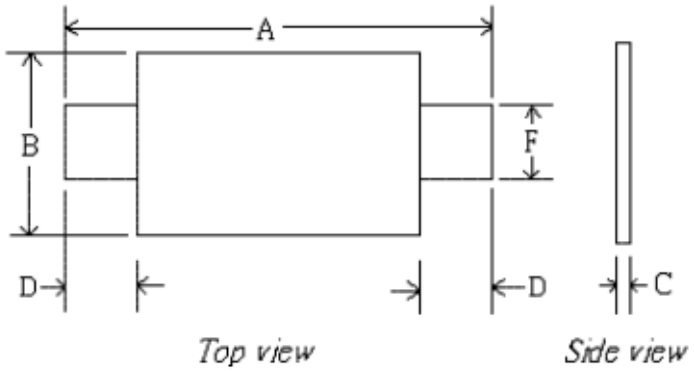
■ Thermal Derating Curve



■ TN Product Dimensions (UNIT: mm)

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



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