

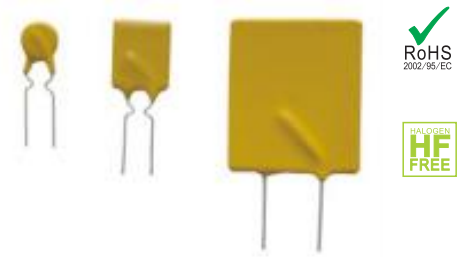
Radial Leaded | Round/Square size

**PU30 Series**

**Polymer Positive Temperature Coefficient Thermistor**

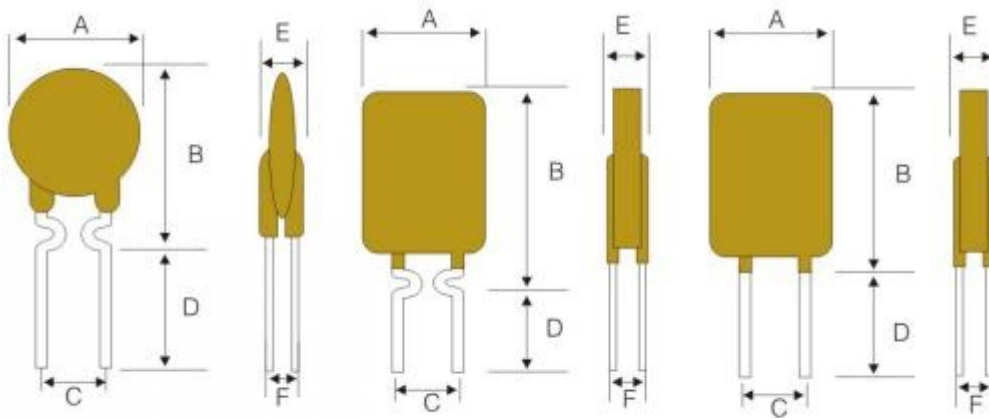
**Features**

- Low voltage over-current protection
- Working current: 0.5A-9.0A
- Impulse voltage: 30V
- In line with RoHs certification, halogen-free packaging
- materials Tin-coated copper-clad steel wire: PU050-PU900
- Tinned wire: PU050-PU900



**Electrical Performance**

Product model	IH (A)	IT (A)	IMax (A)	VMax (V)	MaxTime Trip		PdMax (W)	RMin (Ω)	R1Max (Ω)
					(A)	(S)			
PU30-050	0.5	1.0	40	30	2.5	10.0	1.0	0.29	0.765
PU30-070	0.7	1.4	40	30	3.5	10.0	1.0	0.14	0.330
PU30-075	0.75	1.5	40	30	3.75	10.0	1.0	0.12	0.300
PU30-090	0.90	1.80	40	30	4.50	10.0	1.0	0.07	0.180
PU30-100	1.00	2.00	40	30	5.00	10.0	1.0	0.065	0.240
PU30-110	1.10	2.20	40	30	5.50	10.0	1.0	0.05	0.150
PU30-135	1.35	2.70	40	30	6.75	10.0	1.0	0.04	0.120
PU30-160	1.60	3.20	40	30	8.00	10.0	1.0	0.03	0.105
PU30-185	1.85	3.70	40	30	9.25	10.0	1.0	0.03	0.090
PU30-250	2.50	5.00	40	30	12.5	10.3	1.2	0.02	0.060
PU30-300	3.00	6.00	40	30	15.0	10.8	2.0	0.02	0.075
PU30-400	4.00	8.00	40	30	20.0	12.7	2.5	0.01	0.045
PU30-500	5.00	10.00	40	30	25.0	14.5	3.0	0.01	0.045
PU30-600	6.00	12.00	40	30	30.0	16.0	3.5	0.005	0.030
PU30-700	7.00	14.00	40	30	35.0	17.5	3.8	0.005	0.030
PU30-800	8.00	16.00	40	30	40.0	18.8	4.0	0.005	0.030
PU30-900	9.00	18.00	40	30	45.0	20.0	4.2	0.005	0.015



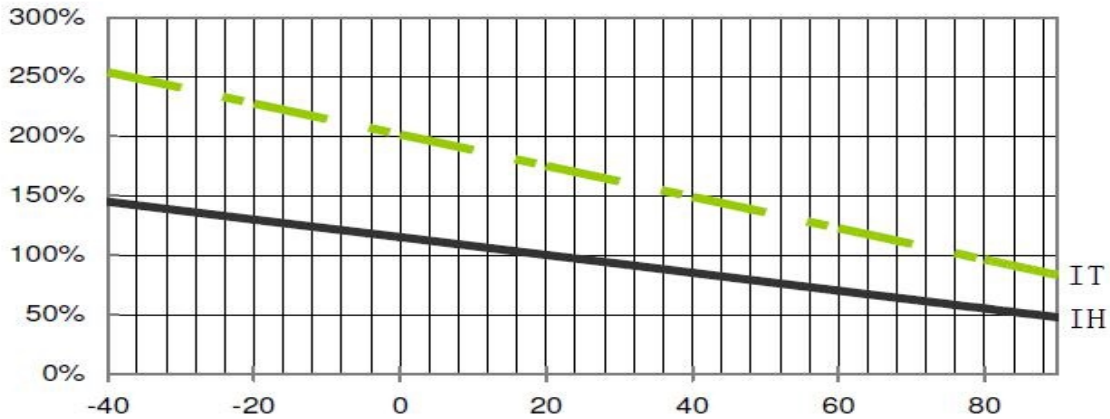
## Size(mm)

Product model	A	B	C	D	E	F	Lead	FIG
	max	max	typ	min	max	typ	Φ	
PU30-050	7.4	13.5	5.1	7.6	3.0	0.9	0.50	1
PU30-070	7.4	16.0	5.1	7.6	3.0	0.9	0.50	2
PU30-075	7.4	16.0	5.1	7.6	3.0	0.9	0.50	2
PU30-090	7.4	16.0	5.1	7.6	3.0	0.9	0.50	2
PU30-100	7.4	16.0	5.1	7.6	3.0	0.9	0.50	2
PU30-110	7.4	16.0	5.1	7.6	3.0	0.9	0.50	2
PU30-135	8.9	16.5	5.1	7.6	3.0	0.9	0.60	2
PU30-160	8.9	19.0	5.1	7.6	3.0	0.9	0.60	2
PU30-185	10.2	19.0	5.1	7.6	3.0	0.9	0.60	2
PU30-250	11.4	21.5	5.1	7.6	3.0	0.9	0.60	2
PU30-300	11.4	17.3	5.1	7.6	3.0	1.2	0.78	3
PU30-400	14.0	20.1	5.1	7.6	3.0	1.2	0.78	3
PU30-500	14.0	24.9	10.2	7.6	3.0	1.2	0.78	3
PU30-600	16.5	25.5	10.2	7.6	3.0	1.2	0.78	3
PU30-700	19.1	26.7	10.2	7.6	3.0	1.2	0.78	3
PU30-800	21.6	29.2	10.2	7.6	3.0	1.2	0.78	3
PU30-900	25.0	29.7	10.2	7.6	3.0	1.2	0.78	3

## Thermal Derating Chart

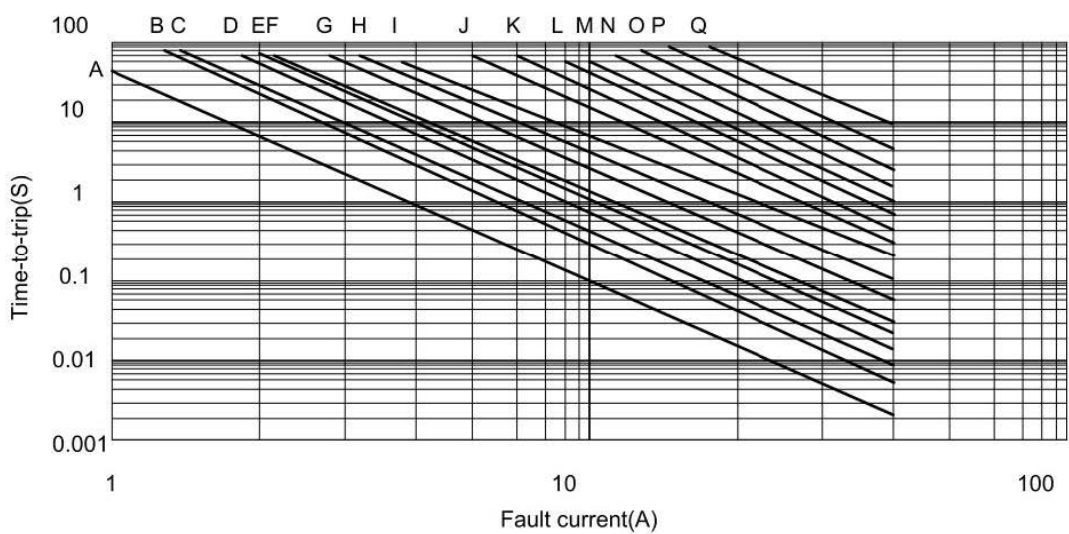
Part Number	Ambient Operating Temperature									
	-40℃	-20℃	0℃	23℃	30℃	40℃	50℃	60℃	70℃	85℃
PU30 Series	145%	130%	120%	100%	95%	88%	80%	71%	66%	56%

**Current Reduction Diagram**



**Action Protection Time Curve(TA=25°C±2°C)**

- A=PU30-050
- B=PU30-070
- C=PU30-075
- D=PU30-090
- E=PU30-100
- F=PU30-110
- G=PU30-135
- H=PU30-160
- I=PU30-185
- J=PU30-250
- K=PU30-300
- L=PU30-400
- M=PU30-500
- N=PU30-600
- O=PU30-700
- P=PU30-800
- Q=PU30-900



**Regular Service Condition**

1. Operating ambient temperature:-40°C ~ 85°C.
2. Exceeding the applicable conditions of this product or other improper use may cause damage, or even cause electric breakdown or flame.
3. PPTC components are designed for occasional over-current in the circuit and are not recommended for continuous and continuous over-current circuits.
4. Avoid contact of PPTC components with chemical solvents. Prolonged contact will damage the performance of the components.

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