

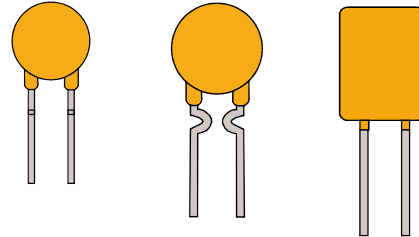
Radial Leaded | Round/Square size

PG16 Series

Polymer Positive Temperature Coefficient Thermistor

Features

- Low voltage over-current protection
- Working current: 0.30A-14.0A
- Impulse voltage: 16V
- In line with RoHS certification, halogen-free product
- Tinned copper clad steel wire(0.30~2.50A)/ Tinned Copper wire(3.00A~14.0A)



Electrical Performance

Product model	IH (A)	IT (A)	Vmax (V)	Imax (A)	Max Time Trip		Pd typ (W)	RMin (Ω)	R1Max (Ω)
					(A)	(S)			
PG16-030	0.30	0.60	16	40	1.50	5.00	1.0	0.30	0.90
PG16-050	0.50	1.00	16	40	2.50	5.00	1.0	0.20	0.75
PG16-065	0.65	1.30	16	40	3.25	5.00	1.0	0.12	0.27
PG16-075	0.75	1.50	16	40	3.75	5.00	1.0	0.10	0.255
PG16-090	0.90	1.80	16	40	4.50	5.00	1.0	0.09	0.240
PG16-110	1.10	2.20	16	40	5.50	5.00	1.0	0.08	0.225
PG16-120	1.20	2.40	16	40	6.00	5.00	1.0	0.07	0.225
PG16-135	1.35	2.70	16	40	6.75	5.00	1.3	0.04	0.180
PG16-160	1.60	3.20	16	40	8.00	10.0	1.5	0.03	0.105
PG16-185	1.85	3.70	16	40	9.25	10.0	2.0	0.03	0.135
PG16-200	2.00	4.00	16	40	10.0	10.0	2.0	0.03	0.075
PG16-250	2.50	5.00	16	50	12.5	5.00	2.5	0.02	0.075
PG16-300	3.00	6.00	16	50	15.0	2.00	2.5	0.038	0.105
PG16-400	4.00	8.00	16	50	20.0	3.50	2.8	0.021	0.060
PG16-500	5.00	10.0	16	100	25.0	3.60	3.0	0.015	0.038
PG16-600	6.00	12.0	16	100	30.0	5.80	3.2	0.010	0.030
PG16-700	7.00	14.0	16	100	35.0	8.00	3.5	0.008	0.023
PG16-800	8.00	16.0	16	100	40.0	9.00	3.5	0.006	0.018
PG16-900	9.00	18.0	16	100	45.0	12.0	3.8	0.005	0.017
PG16-1000	10.0	20.0	16	100	50.0	12.5	4.0	0.004	0.014
PG16-1100	11.0	22.0	16	100	55.0	13.5	4.0	0.004	0.012

Radial Leaded | Round/Square size

Polymer Positive Temperature Coefficient

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Product model	IH (A)	IT (A)	Vmax (V)	Imax (A)	Max Time Trip		Pd typ (W)	RMin (Ω)	R1Max (Ω)
					(A)	(S)			
PG16-1200	12.0	24.0	16	100	60.0	16.0	4.2	0.004	0.011
PG16-1300	13.0	26.0	16	100	65.0	25.0	4.8	0.0035	0.009
PG16-1400	14.0	28.0	16	100	70.0	20.0	4.8	0.003	0.008

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 continuous voltage device can withstand without damage at rated current
 I_{max} = Maximum fault current device can withstand without damage at rated voltage.

T_{tp} = Maximum time to trip(s) at assigned current.
 P_{dtp} = Typical power dissipation: typical amount of power dissipated by the device when in state air environment.
 R_{min} = Minimum resistance of device in initial (un-soldered) state.
 R_{1max} = Maximum resistance of device at 23°C measured one hour after reflow.

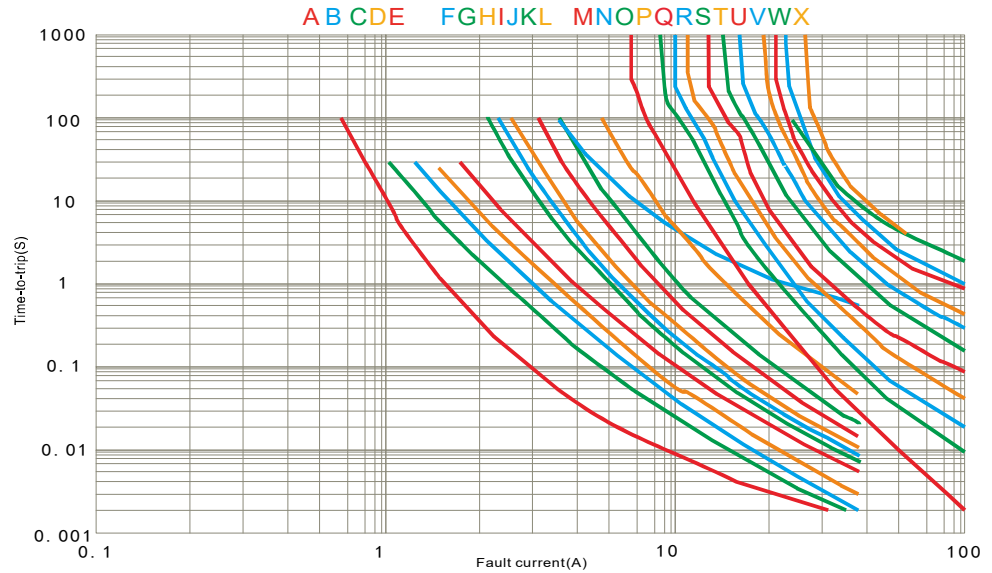
Noted: All electrical function test is conducted after PCB mounted.

Thermal Derating Chart Hold Current (A)

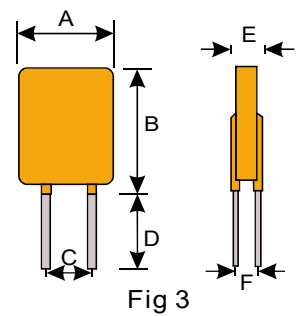
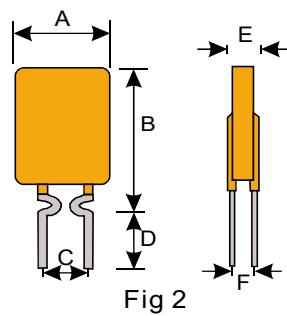
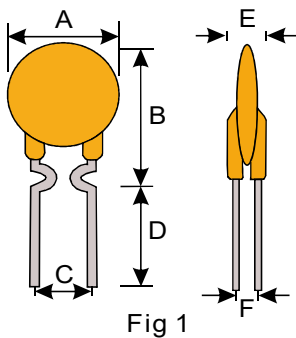
Part Number	Ambient Operating Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
PG16-030	0.444	0.396	0.348	0.300	0.252	0.228	0.207	0.180	0.144
PG16-050	0.740	0.660	0.580	0.500	0.420	0.380	0.345	0.300	0.240
PG16-065	0.962	0.858	0.754	0.650	0.546	0.494	0.449	0.390	0.312
PG16-075	1.110	0.990	0.870	0.750	0.630	0.570	0.518	0.450	0.360
PG16-090	1.332	1.188	1.044	0.900	0.756	0.684	0.621	0.540	0.432
PG16-110	1.628	1.452	1.276	1.100	0.924	0.836	0.759	0.660	0.528
PG16-120	1.776	1.584	1.392	1.200	1.008	0.912	0.828	0.720	0.576
PG16-135	1.998	1.728	1.566	1.350	1.134	1.026	0.932	0.810	0.648
PG16-160	2.368	2.112	1.856	1.600	1.344	1.216	1.104	0.960	0.768
PG16-185	2.738	2.442	2.146	1.850	1.554	1.406	1.277	1.110	0.888
PG16-200	2.960	2.640	2.320	2.000	1.680	1.520	1.380	1.200	0.960
PG16-250	3.700	3.300	2.900	2.500	2.100	1.900	1.725	1.500	1.200
PG16-300	4.440	3.960	3.480	3.000	2.520	2.280	2.070	1.800	1.440
PG16-400	5.920	5.280	4.640	4.000	3.360	3.040	2.760	2.400	1.920
PG16-500	7.400	6.600	5.800	5.000	4.200	3.800	3.450	3.000	2.400
PG16-600	8.880	7.920	6.960	6.000	5.040	4.560	4.140	3.600	2.880
PG16-700	10.360	9.240	8.120	7.000	5.880	5.320	4.830	4.200	3.360
PG16-800	11.840	10.560	9.600	8.000	6.720	6.080	5.520	4.800	3.840
PG16-900	13.320	11.880	10.700	9.000	7.560	6.840	6.210	5.400	4.320
PG16-1000	14.800	13.200	12.000	10.000	8.400	7.600	6.900	6.000	4.800
PG16-1100	16.280	14.520	13.100	11.000	9.240	8.360	7.590	6.600	5.280
PG16-1200	17.760	15.840	14.400	12.000	10.080	9.120	8.280	7.200	5.760
PG16-1300	19.240	17.160	15.730	13.000	10.920	9.880	8.970	7.800	6.240
PG16-1400	20.720	18.480	16.800	14.000	11.760	10.640	9.660	8.400	6.720

Typical time to trip at 23°C

- A=PG16-030
- B=PG16-050
- C=PG16-065
- D=PG16-075
- E=PG16-090
- F=PG16-110
- G=PG16-120
- H=PG16-135
- I=PG16-160
- J=PG16-185
- K=PG16-200
- L=PG16-250
- M=PG16-300
- N=PG16-400
- O=PG16-500
- P=PG16-600
- Q=PG16-700
- R=PG16-800
- S=PG16-900
- T=PG16-1000
- U=PG16-1100
- V=PG16-1200
- W=PG16-1300
- X=PG16-1400



Size(mm)



Product model	A	B	C	D	E	F	Lead Φ	FIG	Package QTY
	max	max	typ	min	max	typ			
PG16-030	7.40	13.00	5.10	7.60	3.00	0.80	0.50	1	1000PCS
PG16-050	7.40	13.00	5.10	7.60	3.00	0.80	0.50	1	1000PCS
PG16-065	7.40	13.00	5.10	7.60	3.00	0.80	0.50	1	1000PCS
PG16-075	7.40	13.00	5.10	7.60	3.00	0.80	0.50	1	1000PCS
PG16-090	7.40	14.40	5.10	7.60	3.00	0.80	0.50	2	1000PCS
PG16-110	7.40	14.40	5.10	7.60	3.00	0.80	0.50	2	1000PCS

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Product model	A	B	C	D	E	F	Lead	FIG	Package QTY
	max	max	typ	min	max	typ	Φ		
PG16-120	7.40	14.40	5.10	7.60	3.00	0.80	0.50	2	1000PCS
PG16-135	8.90	15.90	5.10	7.60	3.00	0.90	0.60	2	1000PCS
PG16-160	8.90	19.00	5.10	7.60	3.00	0.90	0.60	2	1000PCS
PG16-185	10.70	19.00	5.10	7.60	3.00	0.90	0.60	2	1000PCS
PG16-200	11.20	17.00	5.10	7.60	3.00	0.90	0.60	1	1000PCS
PG16-250	8.90	19.00	5.10	7.60	3.00	0.90	0.60	2	1000PCS
PG16-300	7.10	11.50	5.10	7.60	3.00	1.20	0.80	3	1000PCS
PG16-400	8.90	13.50	5.10	7.60	3.00	1.20	0.80	3	1000PCS
PG16-500	10.50	15.10	5.10	7.60	3.00	1.20	0.80	3	1000PCS
PG16-600	11.00	17.80	5.10	7.60	3.00	1.20	0.80	3	500PCS
PG16-700	11.20	20.20	5.10	7.60	3.00	1.20	0.80	3	500PCS
PG16-800	14.00	22.50	5.10	7.60	3.00	1.20	0.80	3	500PCS
PG16-900	14.00	22.50	5.10	7.60	3.00	1.20	0.80	3	500PCS
PG16-1000	16.50	26.70	5.10	7.60	3.00	1.20	0.80	3	500PCS
PG16-1100	18.00	28.00	5.10	7.60	3.00	1.20	0.80	3	300PCS
PG16-1200	18.00	28.00	5.10	7.60	3.50	1.40	0.80	3	300PCS
PG16-1300	25.00	30.50	10.20	7.60	3.50	1.40	0.80	3	100PCS
PG16-1400	25.00	30.50	10.20	7.60	3.50	1.40	0.80	3	100PCS

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.