RG Series
Radial Leaded PTC

LEAD FREE
RoSH COMPLIANT

Application:	Wide variety of electronic equipment
Product Features:	Very high hold current, Solid state Radial-leaded product ideal for up to 16Vdc
Operation Current:	2.5A~14A
Maximum Voltage:	16VC
Temperature Range:	-40°C to 85°C
Agency Recognition:	UL, C-UL, TÜV

Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
							RMIN	R1MAX
	IH, A	IT, A	at 5xIH	IMAX, A	VMAX,Vdc	Pd, W	ohms	ohms
RG250-16	2.5	4.7	5.0	100	16	1.0	0.022	0.053
RG300-16	3.0	5.1	2.0	100	16	2.3	0.034	0.105
RG400-16	4.0	6.8	3.5	100	16	2.4	0.020	0.063
RG500-16	5.0	8.5	3.6	100	16	2.6	0.014	0.044
RG600-16	6.0	10.2	5.8	100	16	2.8	0.009	0.033
RG700-16	7.0	11.9	8.0	100	16	3.0	0.006	0.021
RG800-16	8.0	13.6	9.0	100	16	3.0	0.005	0.018
RG900-16	9.0	15.3	12.0	100	16	3.3	0.004	0.015
RG1000-16	10.0	17.0	12.5	100	16	3.3	0.003	0.012
RG1100-16	11.0	18.7	13.5	100	16	3.7	0.003	0.010
RG1200-16	12.0	20.4	16.0	100	16	4.2	0.002	0.009
RG1400-16	14.0	23.8	20.0	100	16	4.6	0.002	0.008

IH=Hold current-maximum current at which the device will not trip at 23°C still air.
IT=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).
Pd=Typical power dissipated from device when in the tripped state in 23°C still air environment.
RMIN=Minimum device resistance at 23°C.
R1MAX=Maximum device resistance at 23°C, 1 hour after tripping .
Physical specifications:
Lead material: Tin plated copper, 24 AW
Soldering characteristics: RG250-16 Tin plated copper, 24 AWG
RG300~RG1100 Tin plated copper, 20 AWG.
RG1200~RG1400 Tin plated copper, 18 AWG.
Soldering characteristics: MIL-STD-202, Method 208E.
Insulating coating:Flame retardant epoxy, meet UL-94V-0 requirement.

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RG Product Dimensions (Millimeters)

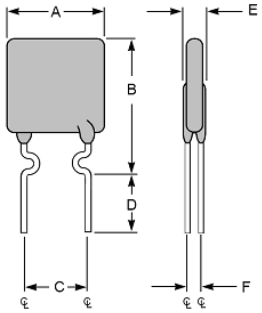

Figure 1
RG250-16
Lead Size: 24AWG
Ø 0.51 mm Diameter

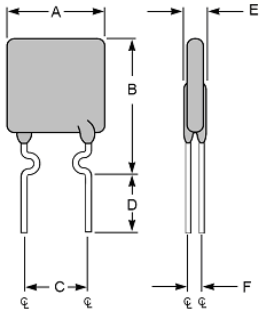

Figure 2
RG300-16~RG1100~16
Lead Size: 20AWG
Ø 0.81 mm Diameter

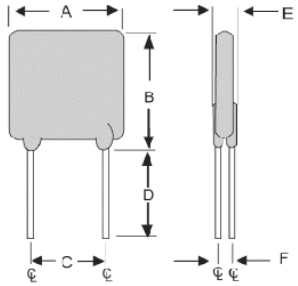

Figure 3
RG1200-16~RG1400~16
Lead Size: 18AWG
Ø 1.0 mm Diameter

Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
RG250-16	1	8.9	12.8	5.1	7.6	3.0	1.2
RG300-16	2	7.1	11.0	5.1	7.6	3.0	1.2
RG400-16	2	8.9	12.8	5.1	7.6	3.0	1.2
RG500-16	2	10.4	14.3	5.1	7.6	3.0	1.2
RG600-16	2	10.7	17.1	5.1	7.6	3.0	1.2
RG700-16	2	11.2	19.7	5.1	7.6	3.0	1.2
RG800-16	2	12.7	20.9	5.1	7.6	3.0	1.2
RG900-16	2	14.0	21.7	5.1	7.6	3.0	1.2
RG1000-16	2	16.5	24.1	5.1	7.6	3.0	1.2
RG1100-16	2	17.5	26.0	5.1	7.6	3.0	1.2
RG1200-16	3	17.5	28.0	10.2	7.6	3.6	1.4
RG1400-16	3	27.9	27.9	10.2	7.6	3.6	1.4

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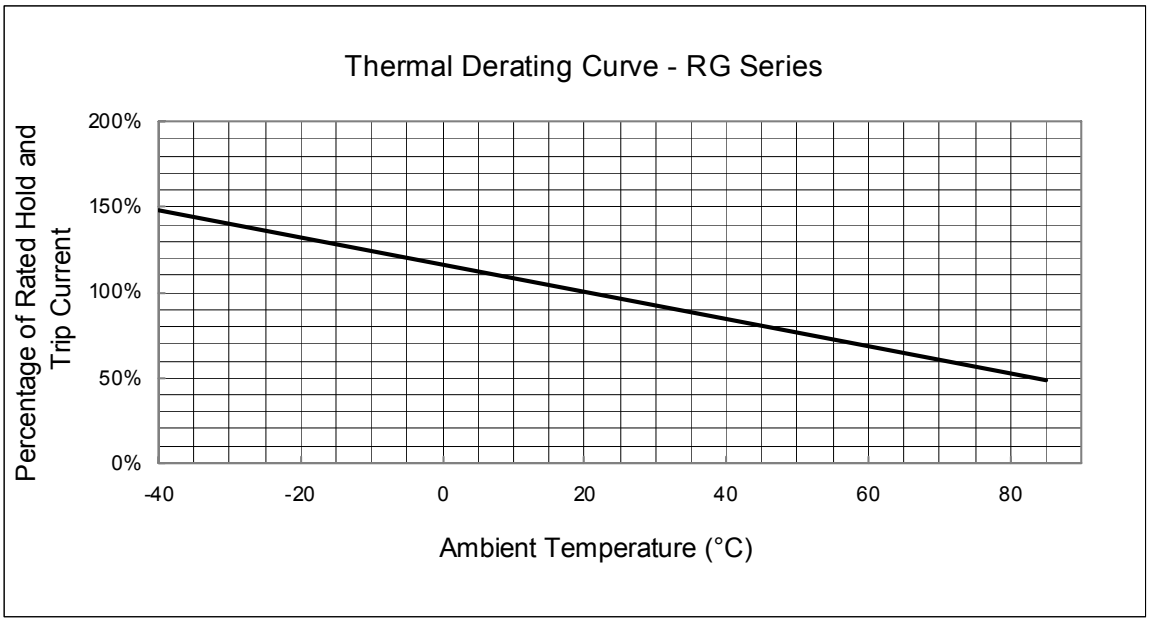
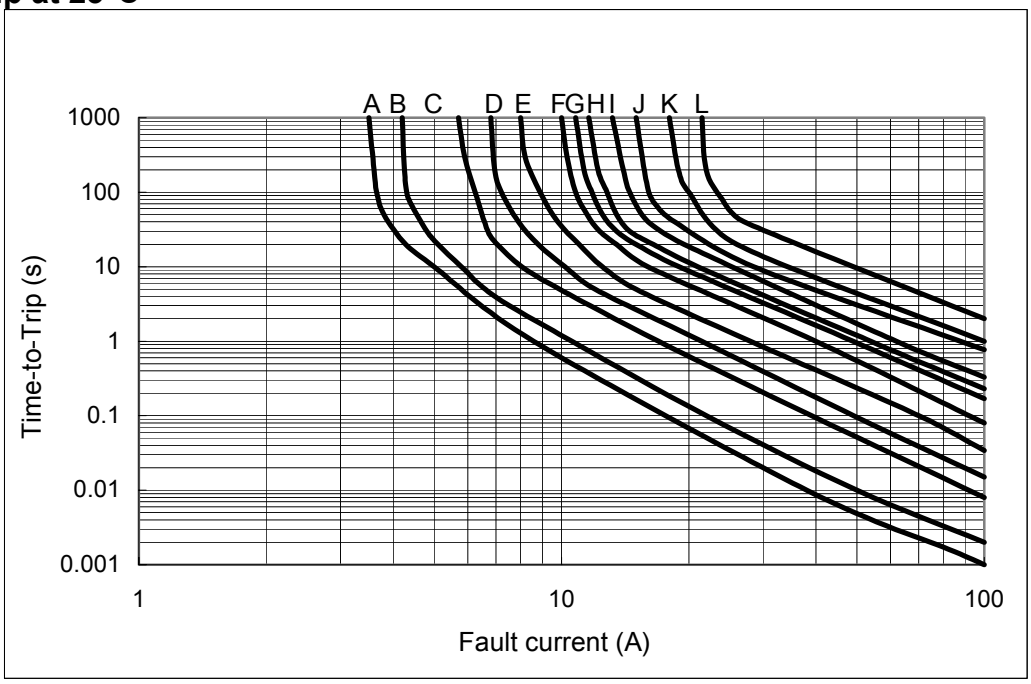
Thermal Derating Curve



Typical Time-To-Trip at 23°C

A = RG250-16
B = RG300-16
C = RG400-16
D = RG500-16
E = RG600-16
F = RG700-16
G = RG800-16
H = RG900-16
I = RG1000-16
J = RG1100-16
K = RG1200-16
L = RG1400-16



Part Numbering System

RG _ _ _ - _ _ _

- Current Rating
- Voltage Rating
- Nil : Bulk
  T : Tape & Reel

RG300F
34AE
Example

Part Marking System

RG _ _ _ F

- Product Family
- Part Identification
- PB-Free / RoHs Compliant

_ _ _ _

- Data Code/Lot Number

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Standard Package

P/N	Pcs /Bag	Reel/Tape
RG250-16	500	2.5K
RG300-16	500	2.5K
RG400-16	300	2.5K
RG500-16	300	2.5K
RG600-16	300	2.5K
RG700-16	200	1.2K
RG800-16	200	-------
RG900-16	200	-------
RG1000-16	100	-------
RG1100-16	100	-------
RG1200-16	100	-------
RG1400-16	100	-------

1- Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.
2 -PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.
3- Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.