RH Series
Radial Leaded PTC

LEAD FREE
RoSH COMPLIANT

Application:	Telecommunication and Data transmitting
Product Features:	Low hold current, Solid state Radial-leaded product ideal for up to 60V/250V/600V
Operation Current:	0.08 A~0.18A
Maximum Voltage:	60V/250V/600V
Temperature Range:	-40°C to 85°C
Agency Recognition:	UL, C-UL, TÜV

Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Rated Voltage	Typical Power	Resistance Tolerance	
					RMIN	R1MAX
	IH, A	IT, A	VMAX,Vdc	Pd, W	ohms	ohms
RH080-250U	0.08	3	60	250	14.0	33
RH080-250	0.08	3	60	250	14.0	33
RH110-250U	0.11	3	60	250	5.0	16
RH110-250	0.11	3	60	250	5.0	16
RH120-250U	0.12	3	60	250	6.0	16
RH120-250	0.12	3	60	250	4.0	16
RH145-250U	0.15	3	60	250	3.5	12
RH145-250	0.15	3	60	250	3.0	12
RH180-250U	0.18	10	60	250	0.8	4
RH180-250	0.18	10	60	250	0.8	4
RH150-600	0.15	3	60	600	6.0	22
RH160-600	0.16	3	60	600	4.0	18

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: RH080-250 ~ RH180-250 Tin plated copper, 22 AWG.
RH150-600 ~ RH160-600 Tin plated copper, 22 AWG.
Soldering characteristics: MIL-STD-202, Method 208E.
Insulating coating:Flame retardant epoxy, meet UL-94V-0 requirement.
NOTE : All RH products are designed to assist equipment to pass ITU, UL1950 or GR1089 specification.
CAUTION : RH devices are not intended for continous use of Line Voltage such as 120 VAC, 600VAC and above.

Specifications are subject to change without notice.

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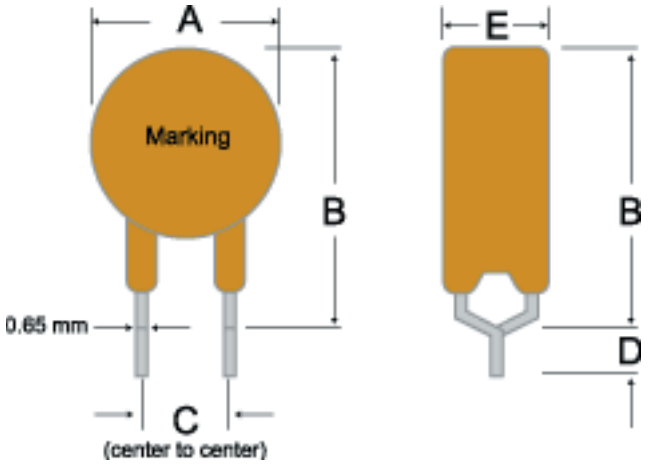
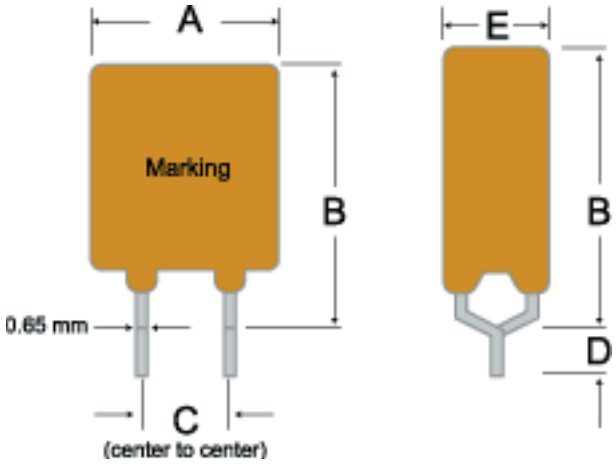
RH Product Dimensions (Millimeters)



Lead Size: 22AWG,
Ø 0.65 mm Diameter



Lead Size: 22AWG,
Ø 0.65 mm Diameter

Part Number	Fig	A	B	C	D	E
		Maximum	Maximum	Typical	Maximum	Maximum
RH080-250U	1	4.8	9.1	5	4.7	3.8
RH080-250	1	5.3	9.6	5	4.7	4.6
RH110-250U	1	5.3	9.4	5	4.7	3.8
RH110-250	1	5.8	9.9	5	4.7	4.6
RH120-250U	2	6.0	10.0	5	4.7	3.8
RH120-250	2	6.5	11.0	5	4.7	4.6
RH145-250U	2	6.0	10.0	5	4.7	3.8
RH145-250	2	6.5	11.0	5	4.7	4.6
RH180-250U	2	10.4	12.6	5	4.7	3.8
RH180-250	2	10.9	12.6	5	4.7	4.6
RH150-600	2	13.5	12.6	5	4.7	6.0
RH160-600	2	16.0	12.6	5	4.7	6.0

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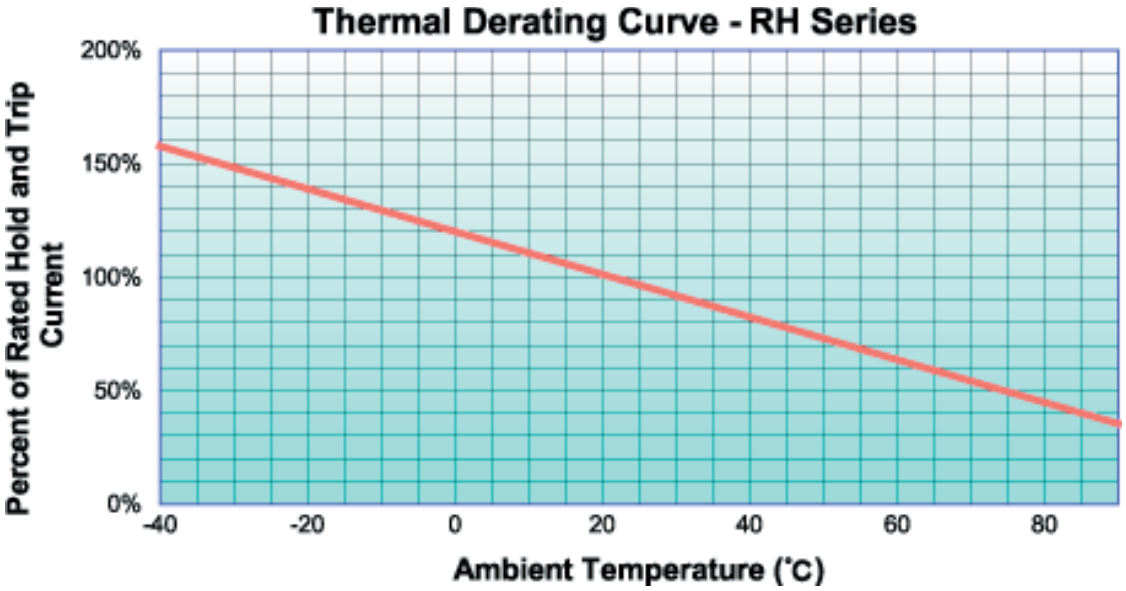
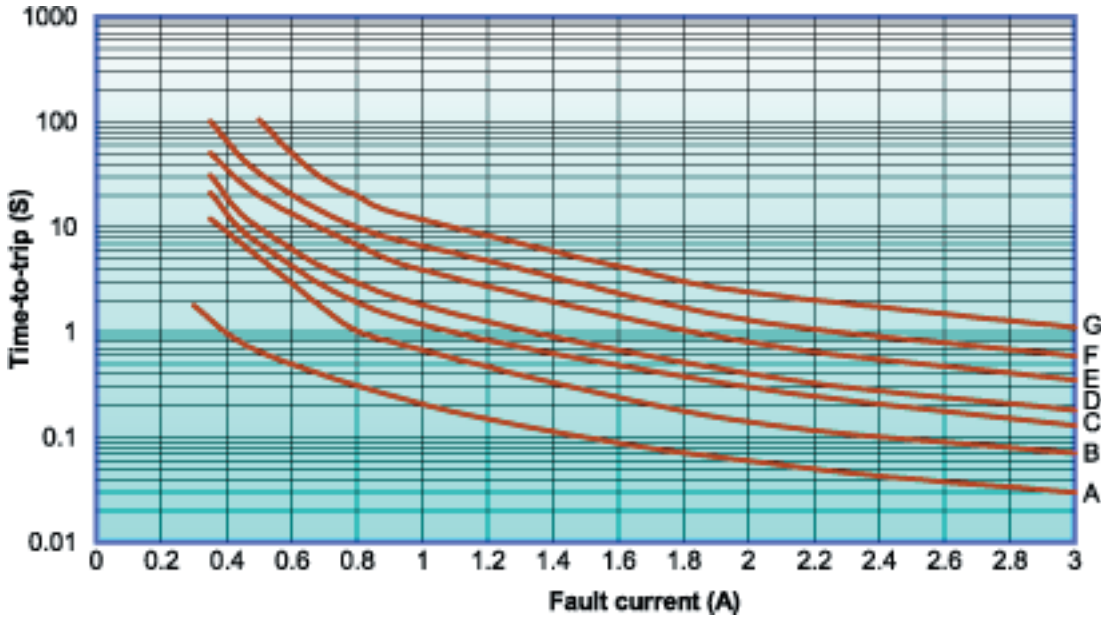
Thermal Derating Curve



Typical Time-To-Trip at 23°C

A= RH080-250(U)
B= RH110-250(U)
C= RH120-250(U)
D= RH145-250(U)
E= RH180-250(U)
F= RH150-600
G= RH160-600



Part Numbering System

RH ___ - ___ ___

- Nil : Bulk / T : Tape & Reel
- Nil : Encapsulated Part / U : Unencapsulated Part
- Voltage Rating
- Current Rating

RH110F
34AG
Example

Part Marking System

RH ___ ___ F

- PB-Free / RoHs Compliant
- Part Identification
- Product Family
- Data Code/Lot Number

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Standard Package

P/N	Pcs /Bag	Reel/Tape
RH080-250U	300	1.5K
RH080-250	300	1.5K
RH110-250U	300	1.5K
RH110-250	300	1.5K
RH120-250U	300	1.5K
RH120-250	300	1.5K
RH145-250U	300	1.5K
RH145-250	300	1.5K
RH180-250U	200	1.2K
RH180-250	200	1.2K
RH150-600	100	600
RH160-600	100	600

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.