

Type RS16HT / RS30HT Resettable Fuse (PTC's) Radial Leaded – High Temp.



www.optifuse.com

(619) 593-5050

Application:

Wide variety of electronic equipment

Product Features:

Very low resistance. Very high hold current, Solid State,
Radial-leaded product ideal for up to 16V / 30V.

Operating temperatures up to 125°C

Operation Current: 500mA~15A

Maximum Voltage: 16V / 30V

Temperature Range: -40°C to 125°C

Agency Standards and Listings:



Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max. Time To Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
	I_H , A	I_T , A	at $5xI_H$, S	I_{MAX} , A	V_{MAX} , Vdc	P_d , W	R_{MIN} Ω	R_{1MAX} Ω
RS30HT-050	0.5	0.9	2.5	40	30	0.9	0.4800	1.1000
RS30HT-070	0.7	1.4	3.2	40	30	1.4	0.3000	0.8000
RS30HT-100	1.0	1.8	5.2	40	30	1.4	0.1800	0.4300
RS16HT-200	2.0	3.8	3.0	100	16	1.4	0.0450	0.1100
RS16HT-300	3.0	6.0	5.0	100	16	3.0	0.0330	0.0790
RS16HT-400	4.0	7.0	5.0	100	16	3.3	0.0240	0.0600
RS16HT-450	4.5	7.8	3.0	100	16	3.6	0.0220	0.0540
RS16HT-550	5.5	10.0	6.0	100	16	3.5	0.0150	0.0370
RS16HT-600	6.0	10.8	5.0	100	16	4.1	0.0130	0.0320
RS16HT-650	6.5	12.0	5.5	100	16	4.3	0.0110	0.0260
RS16HT-700	7.0	13.0	7.0	100	16	4.0	0.0100	0.0250
RS16HT-750	7.5	13.1	7.0	100	16	4.5	0.0094	0.0220
RS16HT-800	8.0	15.0	8.0	100	16	4.2	0.0080	0.0200
RS16HT-900	9.0	16.5	10.0	100	16	5.0	0.0074	0.0170
RS16HT-1000	10.0	18.5	9.0	100	16	5.3	0.0062	0.0150
RS16HT-1100	11.0	20.0	11.0	100	16	5.5	0.0055	0.0130
RS16HT-1300	13.0	24.0	13.0	100	16	6.9	0.0041	0.0100
RS16HT-1400	14.0	27.0	13.0	100	16	6.9	0.0030	0.0090
RS16HT-1500	15.0	28.0	20.0	100	16	7.0	0.0032	0.0092

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 voltage device can withstand without damage at it's rated current.

I_{MAX} = Maximum fault current device can withstand without damage at rated voltage (V max).

P_d = Maximum power dissipated from device when in the tripped state in 23°C still air environment.

R_{MIN} = Minimum device resistance at 23°C.

R_{1MAX} = Maximum device resistance at 23°C, 1 hour after tripping.

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Physical Specifications:

Lead Material: Tin plated copper, 24AWG, 20 AWG, 18 AWG.

Soldering Characteristics: MIL-STD-202, method 208E.

Insulating Coating: Flame retardant epoxy, meet UL-94V-0 requirement.

RS16HT/RS30HT Product Dimensions (millimeters)

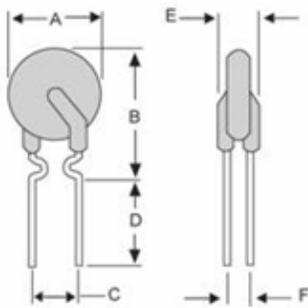


Figure 1

Lead Size :24AWG
Φ0.51 mm Diameter

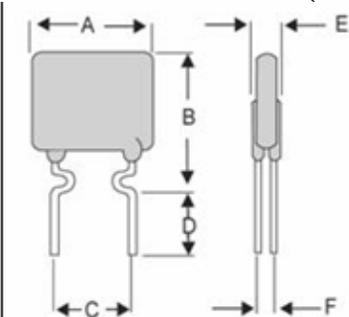


Figure 2

Lead Size :24AWG
Φ0.51 mm Diameter

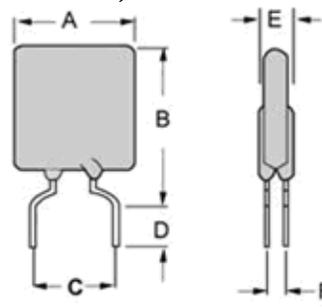


Figure 3

Lead Size : 20AWG
Φ 0.81 mm Diameter

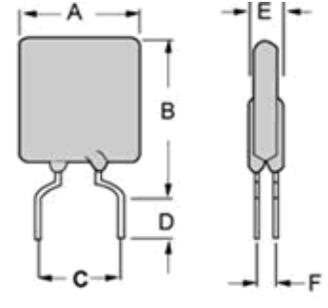


Figure 4

Lead Size : 18AWG
Φ 1.00 mm Diameter

Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
RS30HT-050	1	7.4	12.7	5.1	7.6	3.0	1.2
RS30HT-070	2	6.9	10.8	5.1	7.6	3.0	1.2
RS30HT-100	1	9.7	13.6	5.1	7.6	3.0	1.2
RS16HT-200	1	9.4	14.4	5.1	7.6	3.0	1.2
RS16HT-300	3	8.8	13.8	5.1	7.6	3.0	1.2
RS16HT-400	3	10.0	15.0	5.1	7.6	3.0	1.2
RS16HT-450	3	10.4	15.6	5.1	7.6	3.0	1.2
RS16HT-550	3	11.2	18.9	5.1	7.6	3.0	1.2
RS16HT-600	3	11.2	21.0	5.1	7.6	3.0	1.2
RS16HT-650	3	12.7	22.2	5.1	7.6	3.0	1.2
RS16HT-700	3	14.0	21.9	5.1	7.6	3.0	1.2
RS16HT-750	3	14.0	23.5	5.1	7.6	3.0	1.2
RS16HT-800	3	16.5	22.5	5.1	7.6	3.0	1.2
RS16HT-900	3	16.5	25.7	5.1	7.6	3.0	1.2
RS16HT-1000	3	17.5	26.5	10.2	7.6	3.0	1.2
RS16HT-1100	3	21.0	26.1	10.2	7.6	3.0	1.2
RS16HT-1300	4	23.5	28.7	10.2	7.6	3.6	1.4
RS16HT-1400	4	23.5	28.7	10.2	7.6	3.6	1.4
RS16HT-1500	4	23.5	28.7	10.2	7.6	3.6	1.4

Note: All specifications subject to change without notice.

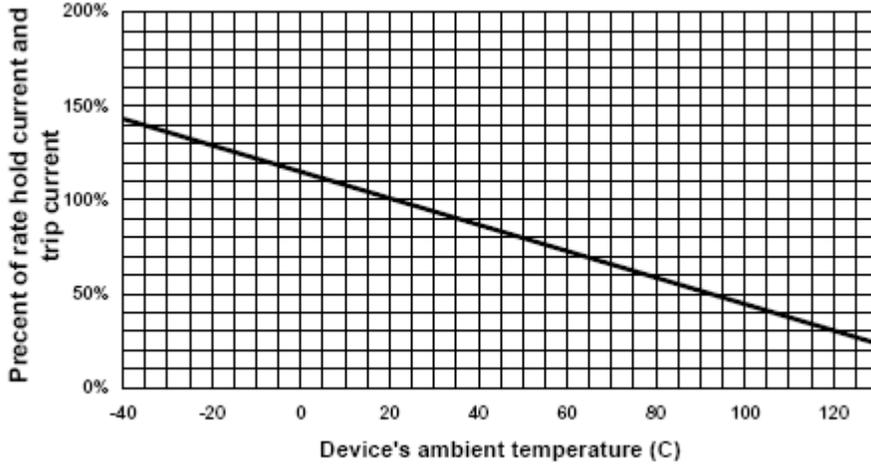
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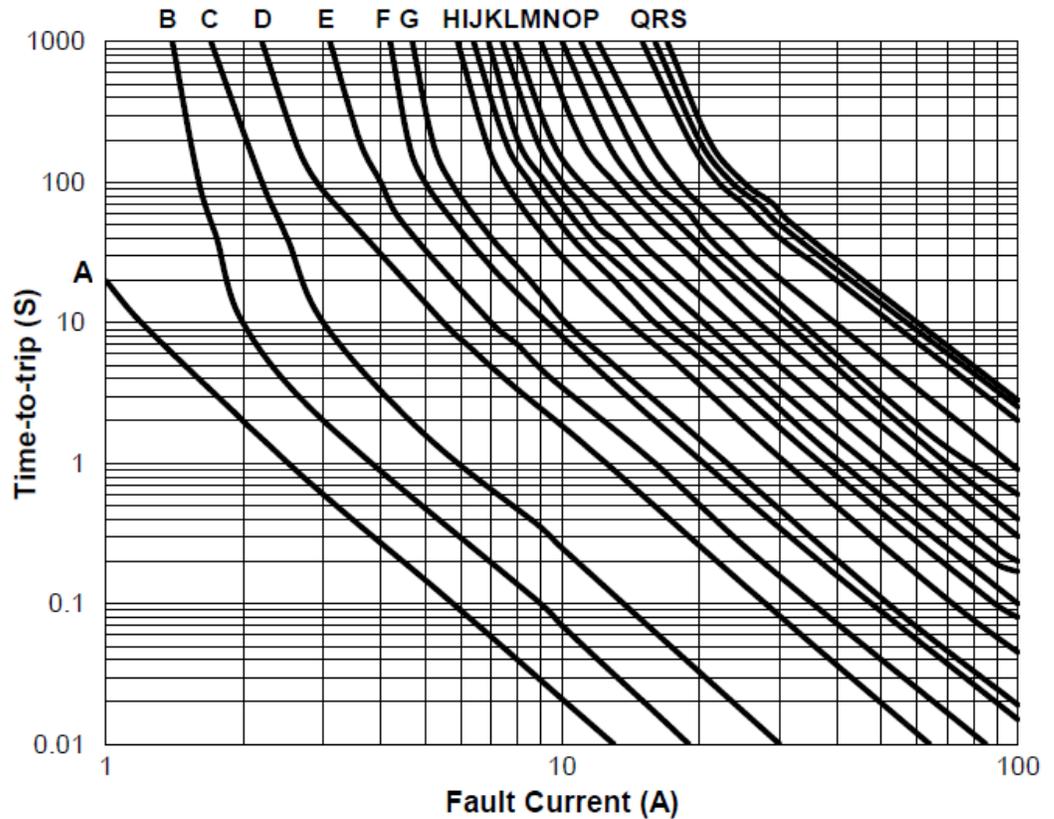
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Thermal Derating Curve – RS16HT, RS30HT Series



Typical Time-To-Trip at 23°C

- A = RS30HT-050
- B = RS30HT-070
- C = RS30HT-100
- D = RS16HT-300
- E = RS16HT-300
- F = RS16HT-400
- G = RS16HT-450
- H = RS16HT-550
- I = RS16HT-600
- J = RS16HT-650
- K = RS16HT-700
- L = RS16HT-750
- M = RS16HT-800
- N = RS16HT-900
- O = RS16HT-1000
- P = RS16HT-1100
- Q = RS16HT-1300
- R = RS16HT-1400
- S = RS16HT-1500



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Standard Package

Part Number	Pcs/Bag	Reel/Tape
RS30HT-050	500	2.5K
RS30HT-070	500	2.5K
RS30HT-100	500	2.5K
RS16HT-200	500	2.5K
RS16HT-300	500	2.5K
RS16HT-400	300	2.5K
RS16HT-450	300	1.5K
RS16HT-550	300	1.5K
RS16HT-600	200	1.5K
RS16HT-650	200	---
RS16HT-700	200	---
RS16HT-750	100	---
RS16HT-800	100	---
RS16HT-900	100	---
RS16HT-1000	100	---
RS16HT-1100	100	---
RS16HT-1300	100	---
RS16HT-1400	100	---
RS16HT-1500	100	---

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