Type RS30 Resettable Fuse (PTC's) **Radial Leaded**



www.optifuse.com

(619) 593-5050

Application:

Wide variety of electronic equipment

Product Features:

Low resistance, High hold current, Solid State Radial-leaded product ideal for up to 30V

Operation Current: 900mA~9A

Maximum Voltage: 30V

Temperature Range: -40°C to 85 °C **Agency Standards and Listings:**



RoHS Compliant

Electrical Characteristics (23°C)

	Hold	Trip	Max. Time	Maximum	Rated	Typical	Resistance	Tolerance
Part	Current	Current	To Trip	Current	Voltage	Power	RMIN	R1max
Number	I _H , A	I _T , A	at 5xI _H , S	I _{MAX} , A	V _{MAX} , Vdc	Pd, W	Ω	Ω
RS30-090	0.90	1.80	5.9	100	30	0.6	0.070	0.22
RS30-110	1.1	2.20	6.6	100	30	0.7	0.050	0.17
RS30-135	1.35	2.70	7.3	100	30	0.8	0.040	0.13
RS30-160	1.60	3.20	8.0	100	30	0.9	0.030	0.11
RS30-185	1.85	3.70	8.7	100	30	1.0	0.030	0.09
RS30-250	2.50	5.00	10.3	100	30	1.2	0.020	0.07
RS30-300	3.00	6.00	10.8	100	30	2.0	0.020	0.08
RS30-400	4.00	8.00	12.7	100	30	2.5	0.010	0.05
RS30-500	5.00	10.00	14.5	100	30	3.0	0.010	0.05
RS30-600	6.00	12.00	16.0	100	30	3.5	0.005	0.04
RS30-700	7.00	14.00	17.5	100	30	3.8	0.005	0.03
RS30-800	8.00	16.00	18.8	100	30	4.0	0.005	0.02
RS30-900	9.00	18.00	20.0	100	30	4.2	0.005	0.02

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).

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

 \mathbf{R}_{MIN} = Minimum device resistance at 23°C.

 $R1_{MAX}$ = Maximum device resistance at 23°C, 1 hour after tripping.

Note: All specifications subject to change without notice.

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Physical Specifications:

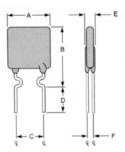
Lead Material: RS30-090 ~ RS30-250: Tin plated copper, 24 AWG.

RS30-300 ~ RS30-900: Tin plated copper, 20 AWG.

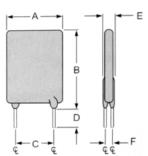
Soldering Characteristics: MIL-STD-202, method 208E.

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

RS30 Product Dimensions (millimeters)







RS30-300 ~ RS30-900 Lead Size: 20AWG, 0.81 mm Diameter

Part	A	В	C	D	E	F
Number	Maximum	Maximum	Typical	Minimum	Maximum	Typical
RS30-090	7.4	12.2	5.1	7.6	3.0	0.9
RS30-110	7.4	14.2	5.1	7.6	3.0	0.9
RS30-135	8.9	13.5	5.1	7.6	3.0	0.9
RS30-160	8.9	15.2	5.1	7.6	3.0	0.9
RS30-185	10.2	15.7	5.1	7.6	3.0	0.9
RS30-250	11.4	18.3	5.1	7.6	3.0	0.9
RS30-300	11.4	17.3	5.1	7.6	3.0	1.2
RS30-400	14.0	20.1	5.1	7.6	3.0	1.2
RS30-500	14.0	24.9	10.2	7.6	3.0	1.2
RS30-600	16.5	24.9	10.2	7.6	3.0	1.2
RS30-700	19.1	26.7	10.2	7.6	3.0	1.2
RS30-800	21.6	29.2	10.2	7.6	3.0	1.2
RS30-900	24.1	29.7	10.2	7.6	3.0	1.2

Warning:



-Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.

-PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip is not anticipated.

-Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.

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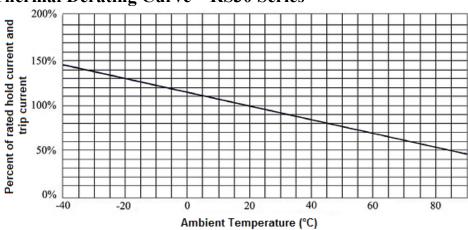
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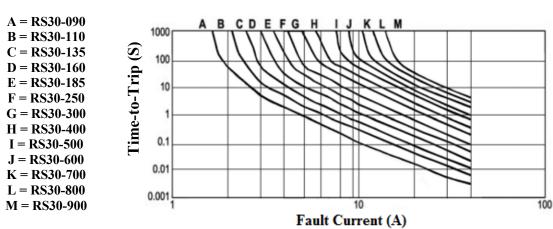
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Thermal Derating Curve – RS30 Series



Typical Time-To-Trip at 23°C



Standard Package

Part Number	Pcs/Bag	Reel/Tape
RS30-090	500	3K
RS30-110	500	3K
RS30-135	300	3K
RS30-160	300	3K
RS30-185	300	3K
RS30-250	300	3K
RS30-300	200	1.5K

Part Number	Pcs/Bag	Reel/Tape
RS30-400	200	1.5K
RS30-500	200	
RS30-600	100	
RS30-700	100	
RS30-800	100	
RS30-900	100	

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