

**Type RS250**  
**Resettable Fuse (PTC's)**  
**Radial Leaded**



www.optifuse.com (619) 593-6050

**Application:**

Telecommunications and Data transmitting

**Product Features:**

Low hold current, Solid State

Radial-leaded product ideal for up to 250V

**Operation Current:** 80mA~180mA

**Maximum Voltage:** 250V

**Temperature Range:** -40°C to 85°C

**Agency Standards and Listings:**



**Electrical Characteristics (23°C)**

Part Number	Hold Current	Maximum Current	Max Oper. Voltage	Max Int. Voltage	Resistance Tolerance	
	$I_H, A$	$I_{MAX}, A$	$V_{MAX}, V$	$V_{I_{MAX}}, V$	$R_{MIN}$	$R_{I_{MAX}}$
	$\Omega$	$\Omega$				
RS250-008	0.08	3.0	100	250	14.0	33.0
RS250-011	0.11	3.0	100	250	5.0	16.0
RS250-012	0.12	3.0	100	250	4.0	16.0
RS250-0145	0.15	3.0	100	250	3.0	12.0
RS250-018	0.18	10.0	100	250	0.8	4.0

$I_H$  = **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.

$V_{I_{MAX}}$  = Maximum interrupt voltage device can withstand for short period of time (Not for long term.)

$I_{MAX}$  = 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.

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

**Note:** All RS250 products are designed to assist equipment to pass ITU, UL1950 or GR1089 specifications.

**Caution:** RS250 Devices are not intended for continuous use of Line Voltage such as 120 VAC ~ 250VAC and above.

<p><b>Warning:</b></p>	<p>-Operation beyond the specified maximum ratings or improper se may reslt 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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# Type RS250

## Resettable Fuse (PTC's)

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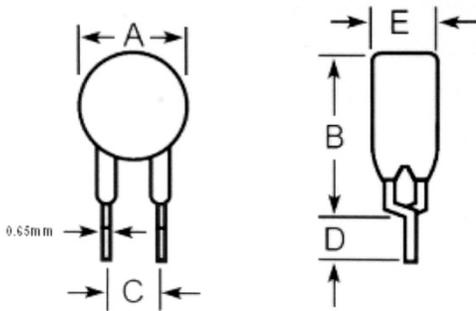
#### Physical Specifications:

**Lead Material:** Tin plated copper, 22 AWG.

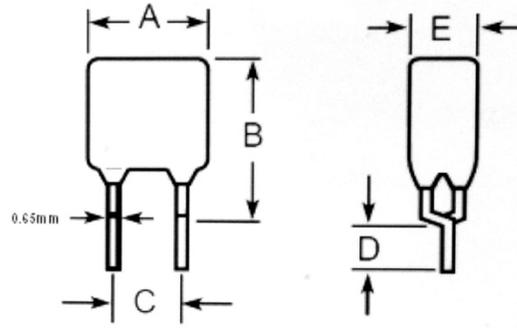
**Soldering Characteristics:** MIL-STD-202, method 208E.

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

#### RS250 Product Dimensions (millimeters)



**Figure 1**  
Lead Size: 22AWG  
0.65 mm Diameter



**Figure 2**  
Lead Size: 22AWG  
0.65 mm Diameter

Part Number	Fig	A	B	C	D	E
		Maximum	Maximum	Typical	Minimum	Maximum
RS250-008	1	5.8	9.6	5.0	4.7	4.6
RS250-011	1	6.8	9.9	5.0	4.7	4.6
RS250-012	2	6.5	11.0	5.0	4.7	4.6
RS250-0145	2	6.5	11.0	5.0	4.7	4.6
RS250-018	1	9.0	12.0	5.0	4.7	3.8

#### Standard Package

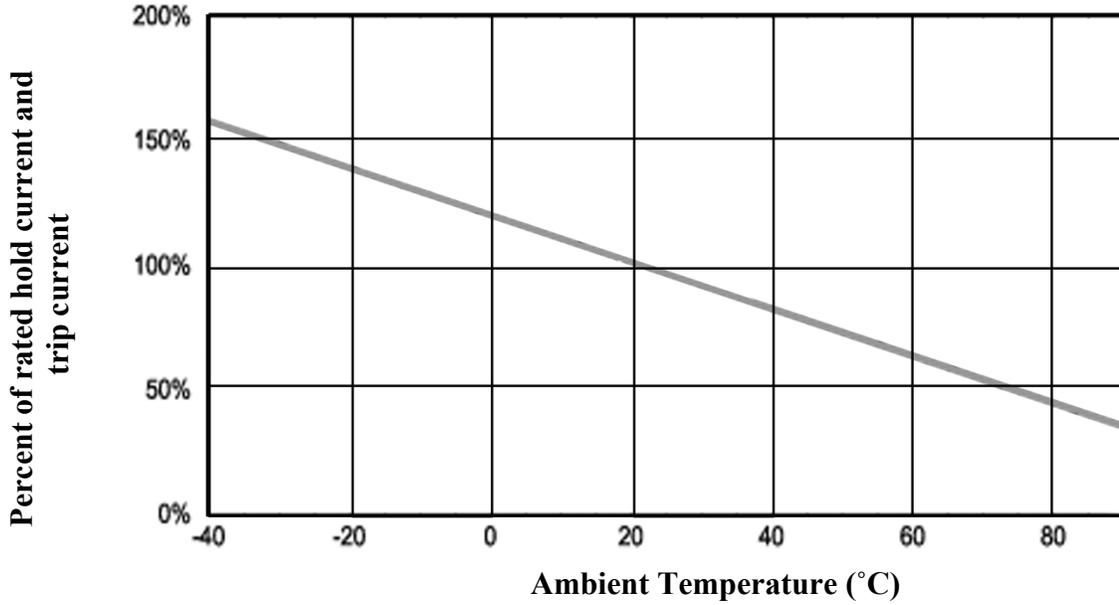
Part Number	Pcs/Bag	Reel/Tape
RS250-008	300	1.5K
RS250-011	300	1.5K
RS250-012	300	1.5K
RS250-0145	300	1.5K
RS250-018	200	1.5K

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**Thermal Derating Curve – Type RS250**



**Typical Time-To-Trip at 23°C**

- A = RS250-008
- B = RS250-011
- C = RS250-012
- D = RS250-0145
- E = RS250-018

