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: -40ºC to 85ºC
Agency Standards and Listings:

RoHS Compliant

Electrical Characteristics (23ºC)

Part Number	Hold Current	Maximum Current	Max Oper. Voltage	Max Int. Voltage	Resistance Tolerance	
					R_{MIN}	$R1_{MAX}$
	I_H, A	I_{MAX}, A	V_{MAX}, V	VI_{MAX}, V	Ω	Ω
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 23ºC still air.
I_T = Trip Current – Minimum current at which the device will always trip at 23ºC still air.
V_{MAX} = Maximum voltage device can withstand without damage at it's rated current.
VI_{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).
Pd = Maximum power dissipated from device when in the tripped state in 23ºC still air environment.
R_{MIN} = Minimum device resistance at 23ºC.
$R1_{MAX}$ = Maximum device resistance at 23ºC, 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.

Warning:	-Operation beyond the specified maximum ratings or improper se may reslt 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 are not anticipated. -Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.

Type RS250
Resettable Fuse (PTC's)
Radial Leaded

www.optifuse.com (619) 593-6050

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)

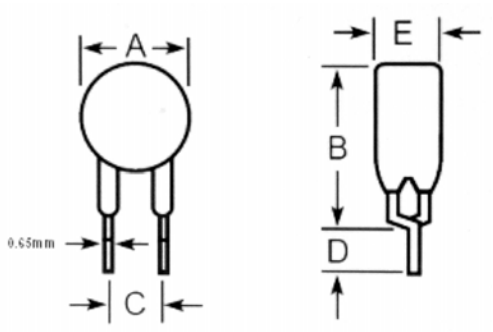


Figure 1
Lead Size: 22AWG
0.65 mm Diameter

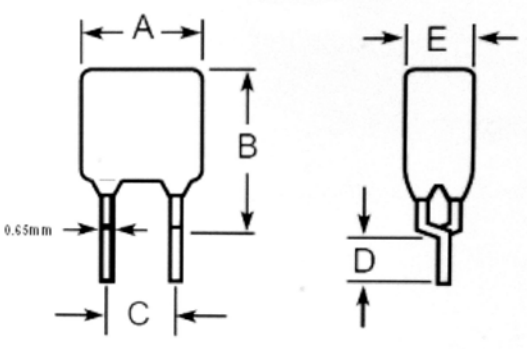


Figure 2
Lead Size: 22AWG
0.65 mm Diameter

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

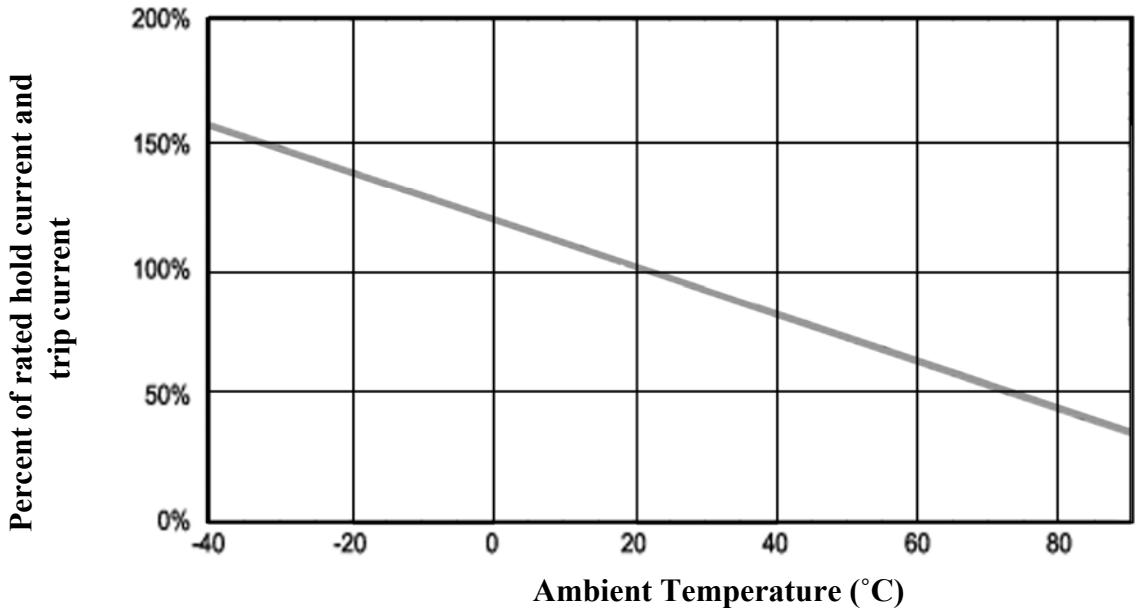
Standard Package

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

Type RS250
Resettable Fuse (PTC's)
Radial Leaded

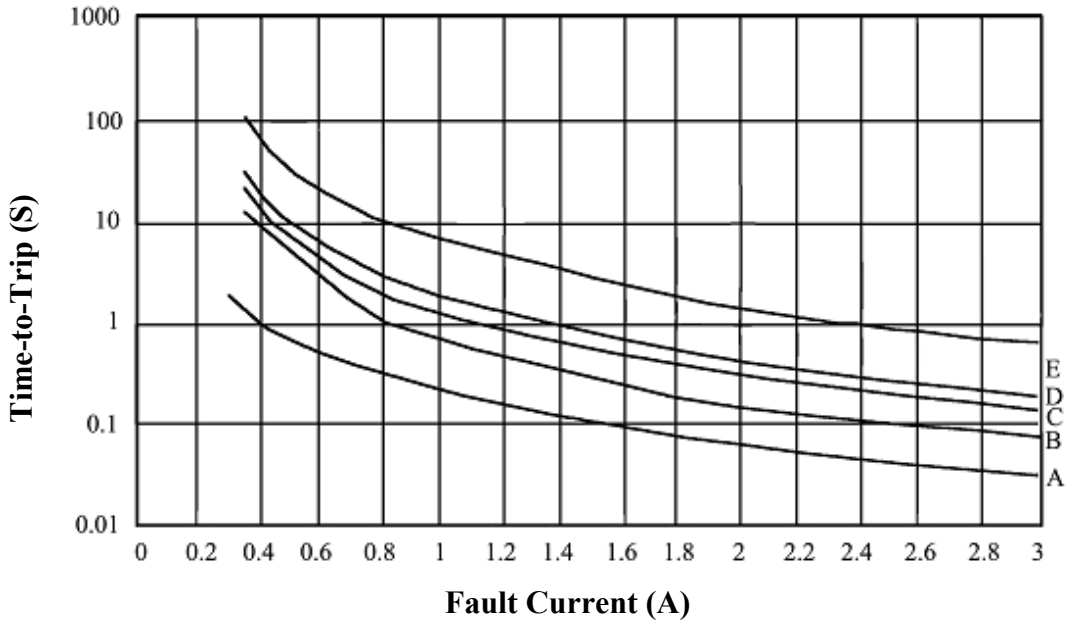
www.optifuse.com (619) 593-6050

Thermal Derating Curve – Type RS250



Typical Time-To-Trip at 23ºC

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



Note: All specifications subject to change without notice.