



# Eaton PolyTron PTC resettable fuses provide fast-acting circuit protection

## Product description

Eaton Bussmann® series PolyTron PTC family of resettable fuses are designed to protect sensitive components from overcurrent and overtemperature conditions that can occur due to power surges, electrical transients, high ambient temperatures, and more.

Eaton's resettable PTC fuses are based on a special positive coefficient material whose internal resistance increases exponentially in response to overcurrent conditions and higher temperatures.

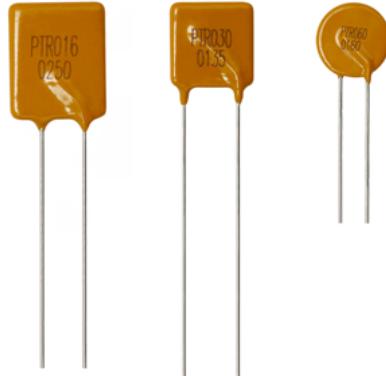
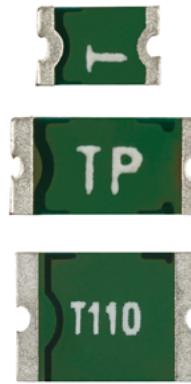
The high resistance offered by the fuse during a trip prevents current from flowing through the circuit until the fault current/overtemperature source is removed and falls below the design current/temperature limit. Once the fault current is removed, or the ambient temperature cools, the fuse re-enters its conducting state, allowing current to flow through the circuit again.

Eaton's resettable PTC fuses ensure constant uptime in applications where using one-time fuses would be impractical or expensive, e.g., in battery-powered devices, industrial controllers, medical devices, and I/O ports of consumer electronics.

For more information, view [Eaton's PTC Application note](#).

## Features and benefits:

- Fast trip times with resettable operation
- Overcurrent and overtemperature protection
- Wide range of current ( $I_{hold}$ ) and voltage offering
- Low initial resistance to minimize power dissipation
- Wide range of current ( $I_{hold}$ ) and voltage ( $V_{max}$ ) offerings
- RoHS compliant, lead-free, halogen-free



## PolyTron PTC Resettable Fuses

### Surface Mount (SMD)



### Radial

	<b>PTSLR0805</b>	<b>PTSLR1206</b>	<b>PTSLR1210</b>	<b>PTSLR1812</b>	<b>PTS0805</b>	<b>PTS1206</b>	<b>PTS1812</b>	<b>PTR016V</b>	<b>PTR030V</b>	<b>PTR060V</b>
<b>Chip Size (Imperial)</b>	0805	1206	1210	1812	0805	1206	1812	-	-	-
<b>Hold Current (Ihold)</b>	0.75 A - 1.75 A	0.75 A - 5 A	1.75 A - 5 A	1.9 A - 5 A	0.1 A - 0.75 A	0.05 A - 2 A	0.10 A - 3 A	0.9 A - 15 A	0.9 A - 9 A	0.1 A - 3.75 A
<b>Max Voltage (Vmax)</b>	6 Vdc	6 Vdc	6 Vdc	6 Vdc	6 - 24 Vdc	6 - 60 Vdc	6 - 60 Vdc	16 Vdc	30 Vdc	60 Vdc
<b>Max Fault Current (Imax)</b>	50 A	50 A	50 A	50 A	100 A	100 A	10 A - 100 A	40 A - 100 A	40 A - 100 A	40 A
<b>Agency Approvals</b>	UL & TUV	UL & TUV	UL & TUV	UL & TUV	UL & TUV	UL & TUV	UL & TUV	UL & TUV	UL & TUV	UL & TUV
<b>Industry</b>	<b>Application</b>									
Computer	CPU & hard disk drives	x	x	x	x	x	x	x	x	
	USB 2.0, 3.0, 3.1	x	x	x	x	x	x	x	x	
	IEEE1284 parallel data buses					x	x	x		
	IEEE 802.3								x	
	IEEE 1394						x		x	
	I/O ports (HDMI, DVI, VGA)	x	x	x	x	x	x	x	x	
	PC cards	x	x	x	x	x	x	x	x	
	SCSI					x	x	x		
	USB flash memory modules	x	x	x	x	x	x	x		
	LCD monitors		x	x	x	x	x	x	x	
Consumer Electronics	Loudspeakers	x	x	x	x				x	
	Smart card readers	x	x	x	x	x	x	x		
	Mobile devices	x	x	x	x					
	Portable/Wearable devices	x	x	x	x	x				
	Battery protection	x	x	x	x					
	Portable electronic input ports	x	x	x	x	x	x			
	Set top boxes				x	x	x	x	x	x
Industrial Electronics	Linear AC/DC adapters				x	x	x		x	x
	Electromagnetic loads, motor							x	x	
	Solenoid protection					x		x	x	
	Displays					x	x	x	x	
	Security systems					x		x	x	
Medical Electronics	Industrial controls					x		x	x	
	Medical equipment					x		x	x	
	Voltage / current input terminals					x	x			

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