



The DNA of tech.®

# PPTC Series / Polymer PTC Thermistors

# Resettable Overcurrent Protection of Low Voltage Circuits in SMD Packages



## ADVANTAGE

Shorten the design cycle with SPICE model low profile SMD PTCs

## KEY PRODUCT FEATURES

- ✓ High holding currents and low cold resistance values for minimal voltage drop in minimized package sizes
- ✓ Fast response times down to 10 ms to overcurrent up to 100 A
- ✓ Real SPICE models assist in confident design-in

## MARKETS AND APPLICATIONS



### CONNECTIVITY

- Telecom fixed infrastructure
- Switches - routers - APs



### CONSUMER

- STB
- Gaming consoles
- Battery operated low voltage appliances



### ENERGY SECTOR

- Auxiliary appliances
- Measuring and metering protection



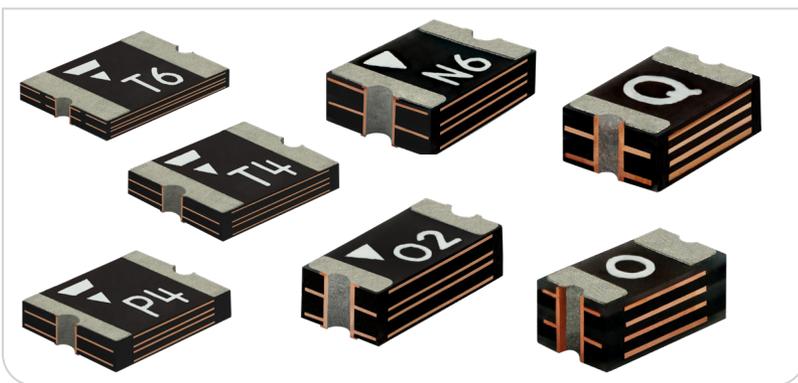
### INDUSTRIAL

- Industrial automation
- Battery operated power tools
- Small drives and motor protection



### COMPUTER

- Peripherals like HDD and PoE
- USB-C power lines



## RESOURCES



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Product Page

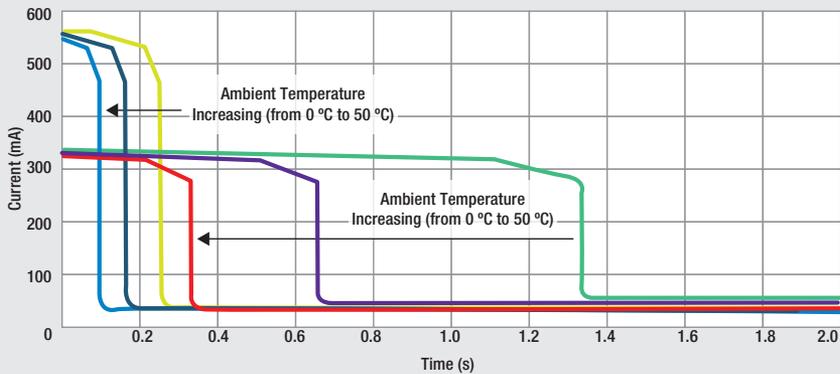


Product Overview

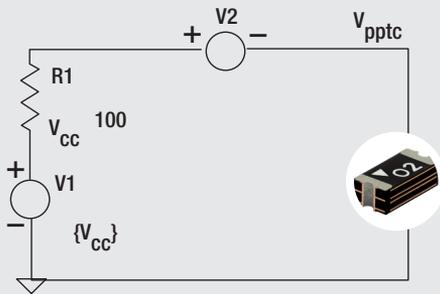
## ADDITIONAL BENEFITS

- Vishay provides encrypted SPICE models for realistic application circuit simulation
- PPTC thermistors are c-UL-us recognized and TUV certified
- Compatible with high temperature Pb-free soldering

## FAST RESPONSE TIME DEPENDING ON OVERCURRENT AND AMBIENT TEMPERATURE



## SPICE MODELS FOR REALISTIC SIMULATION



```

.Tran 0 2 0 0.0001
.Step TEMP list 0 25 50 * ambient temperature
.Step param Vcc list 35 60 * applied voltage
.param Vcc=50
.Meas I0 find I(V2) at=0
.Meas Tsw when I(V2)= I0/5
    
```

## USB-C PORT WITH PPTC PROTECTION

