

WAYON

Let's **Make**
electronics *Safer!*



WAY-ON

Let's make electronics safer !

History

- **1991--“PTC thermistor for telephone communication protection” was successful in tendering for the project of Shanghai Committee of Economy.**
- **1996--Wayon Company formally registered.**
- **1999-- Venture Company was introduced.**
- **2000-- Wayon was changed into a joint stock company.**



Company Profile

- **Major products: Polymer & ceramic PTC、 Fuse、 PCM and other protection components**
- **Annual sales of US \$ 28.5 million in 2002**
- **More than 800 employees in Shanghai, China.**
- **1 share control or share hold subsidiary companies.**



Quality System Approvals

- **ISO9001 (2000) Quality Certification**
- **QS9000 Quality Certification**



Quality Programming

- **1998 ISO9002 Quality System**
- **2001 QS9000 Quality System**
- **2002 ISO9000(2000) Quality System**
- **2004 TS16946 Quality System**
- **2005 6**



Product certification

Safety Approvals

- **UL \ TUV \ CSA**



Green Product Program

- human in manufacture & design
- harmless in production
- lead-free in jointing
- Innoxious in packaging

**ISO14000 Environment
Management Certification**



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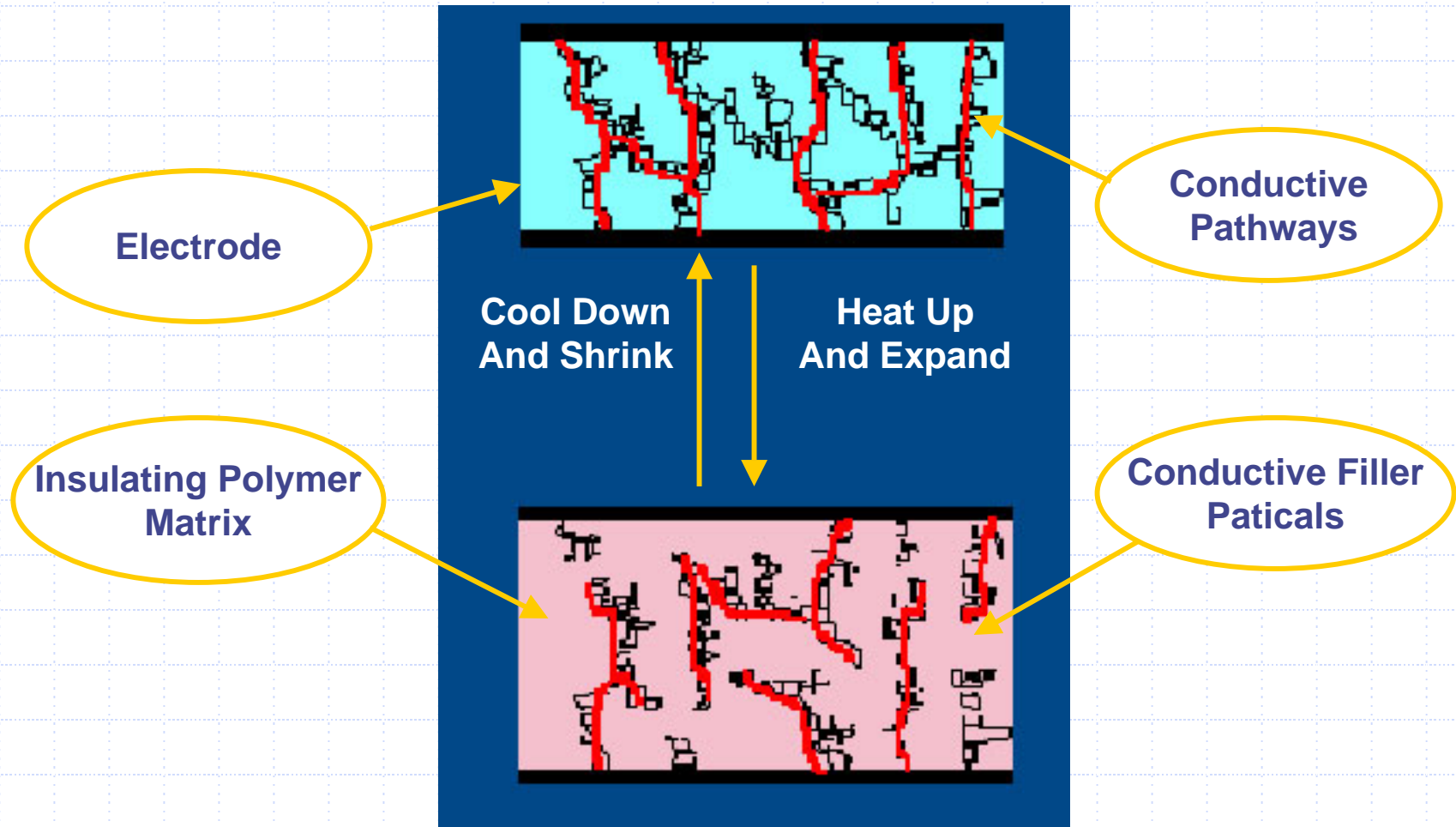
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Target Markets

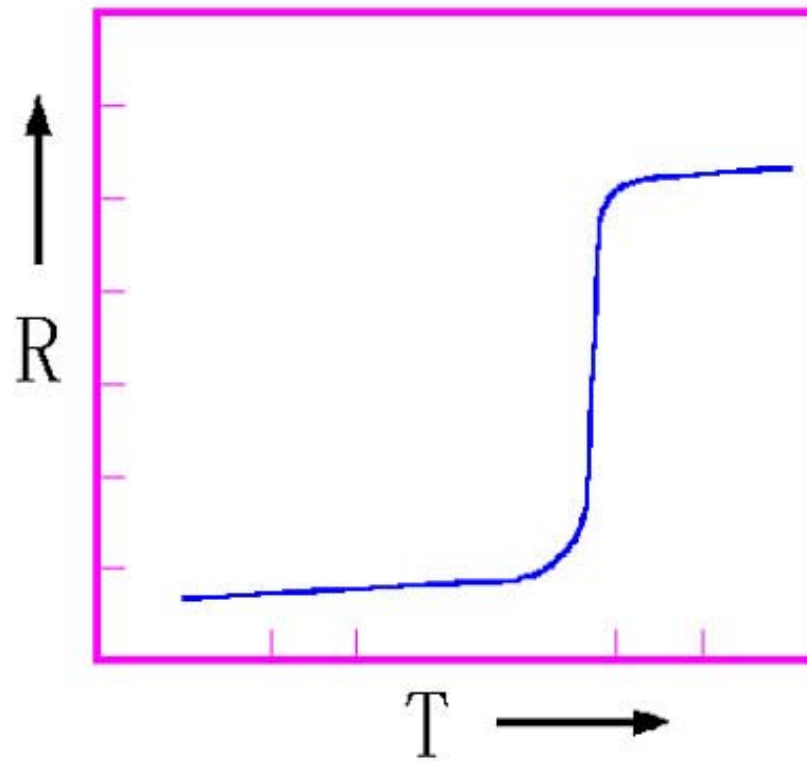
- **Telecom**
- **Power supply**
- **Automobile electronics**
- **Home appliance & IT equipments**



PPTC

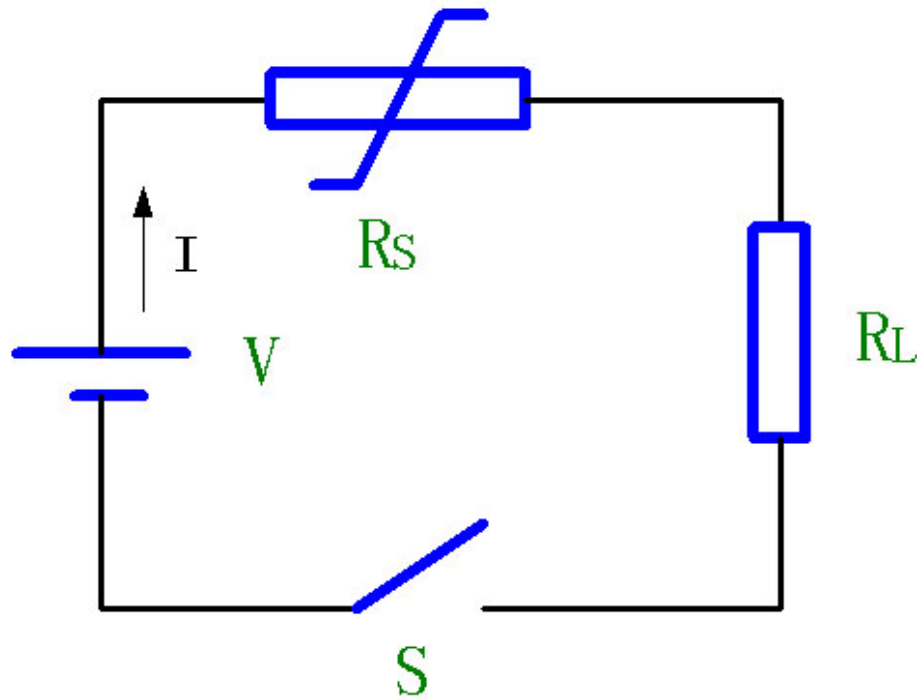


PPTC



PPTC

PPTC Resettable Fuse



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PPTC

$$C_p \left(\frac{T}{t} \right) = I^2 R(T) - U(T - T_a)$$

Heat Accumulated = Heat Generated -

C_p = thermal mass of the device

I = current through device

$R(T)$ = resistance of device

U = thermal conductance of device

T = device temperature

T_a = ambient temperature



PPTC

For Short Circuit Faults

$$I^2 R(T) > U(T - T_a)$$

therefore

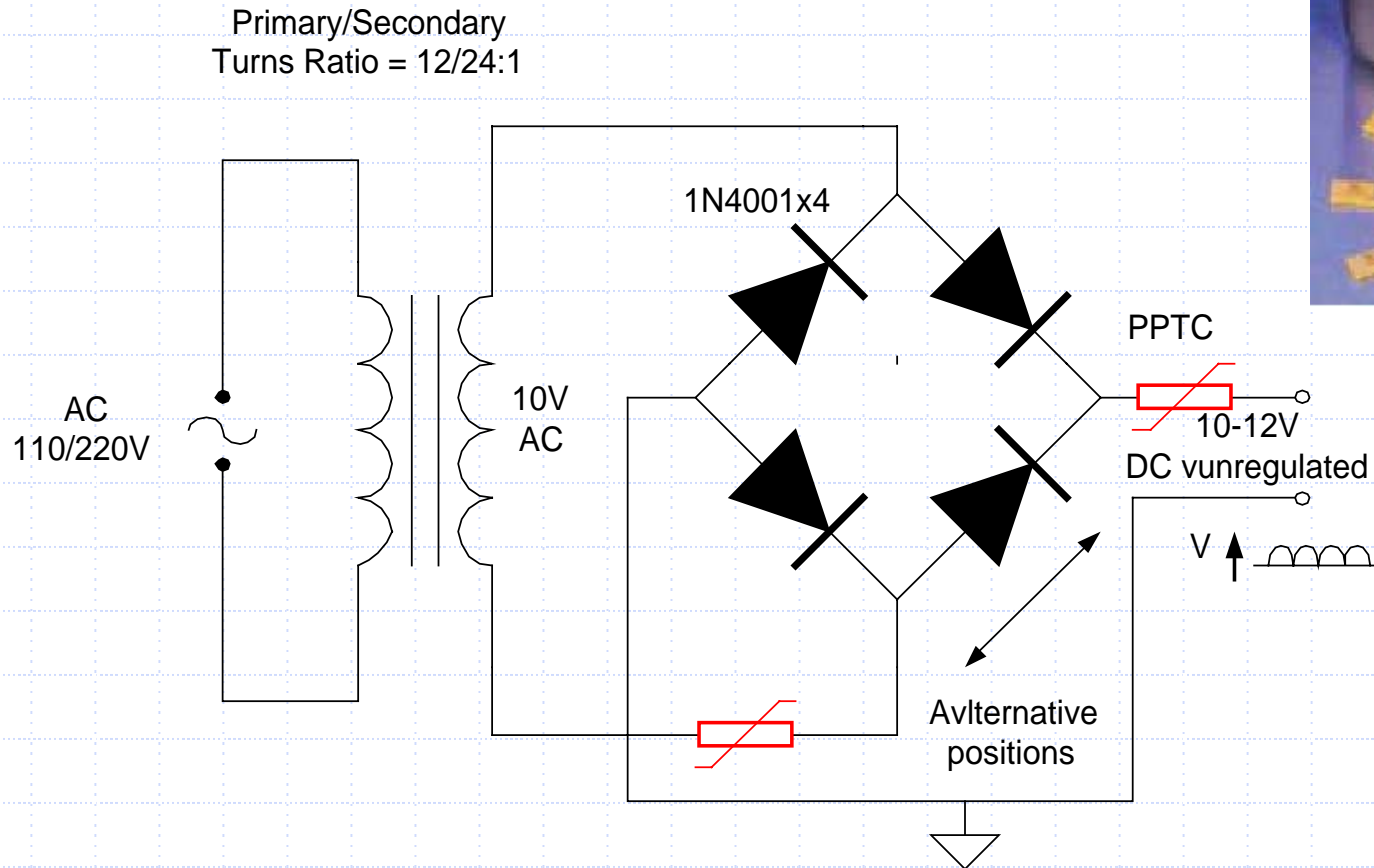
The Device Temperature

The Device Resistance

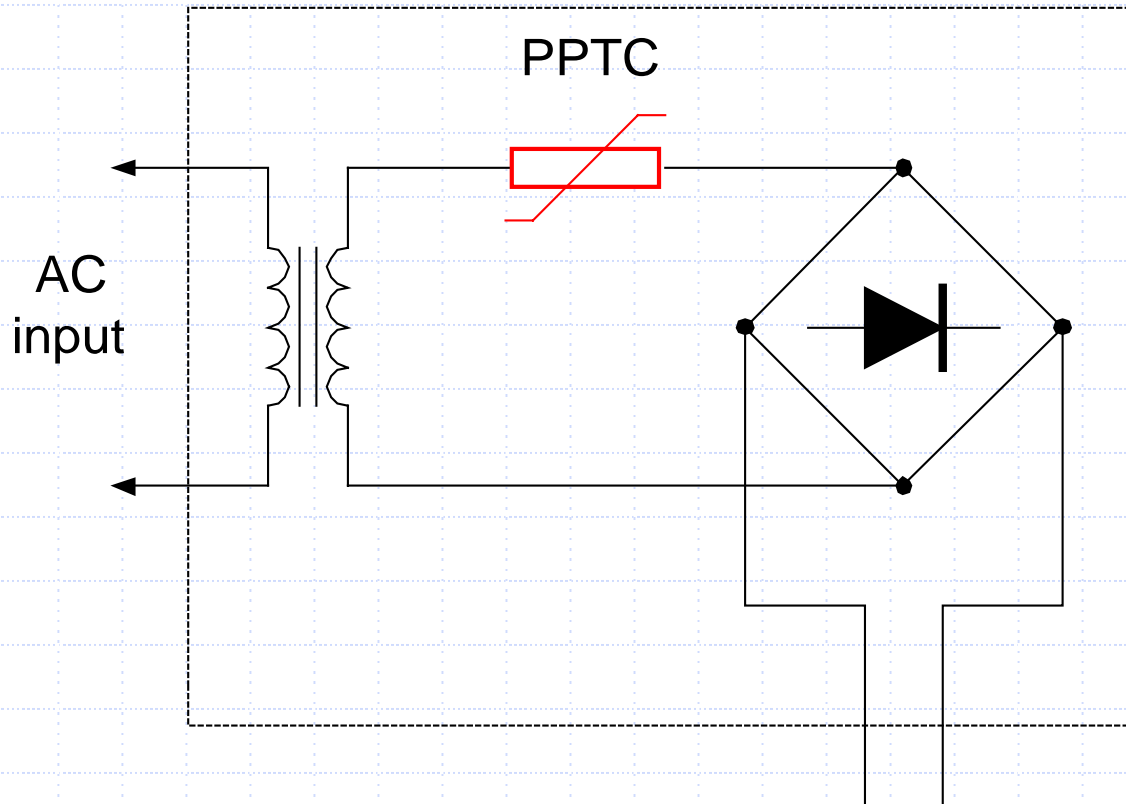
to reduce the current



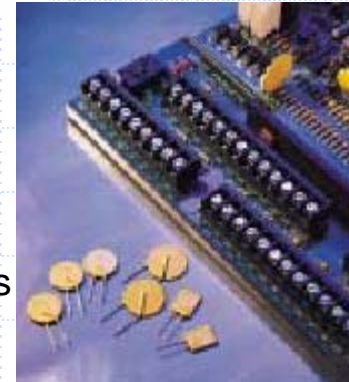
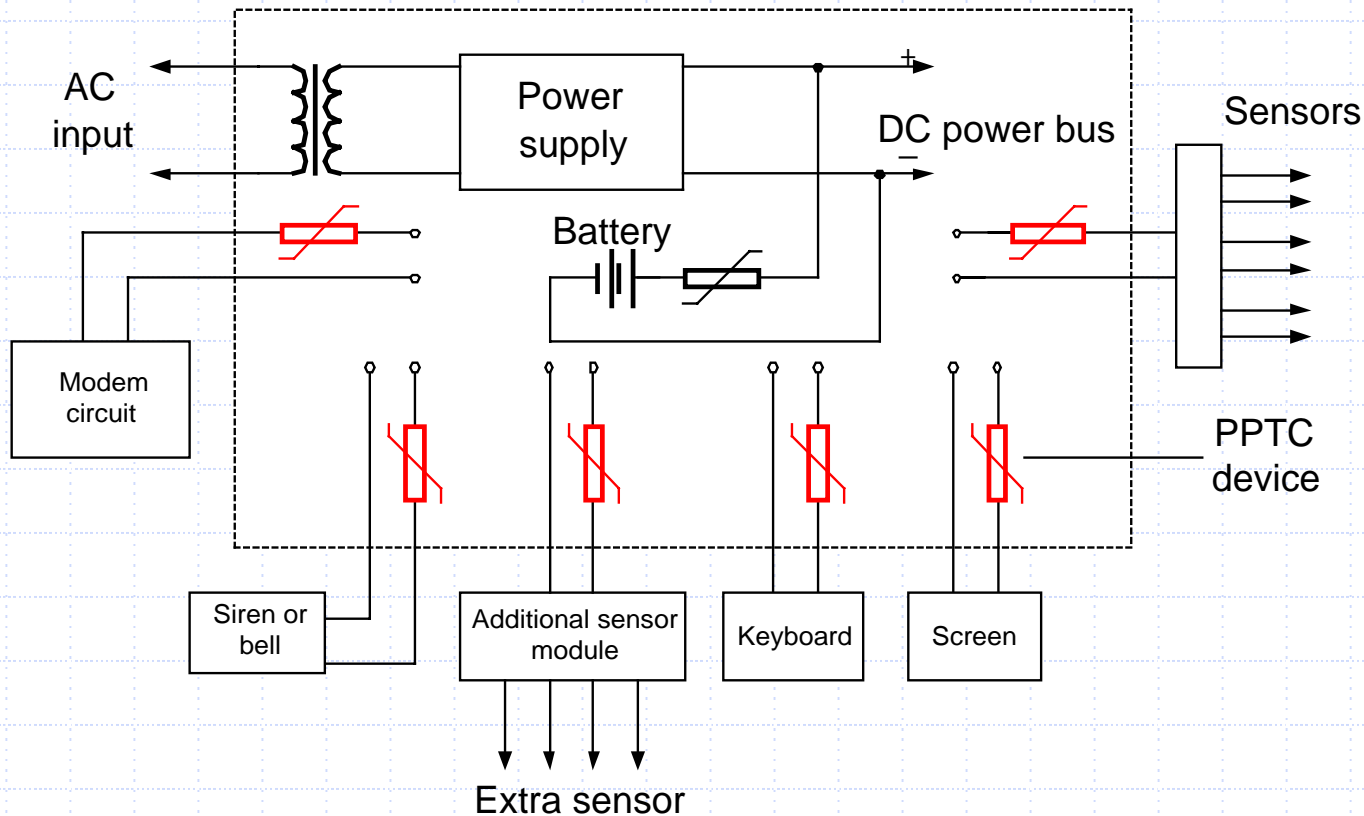
Linear AC/DC Adapter



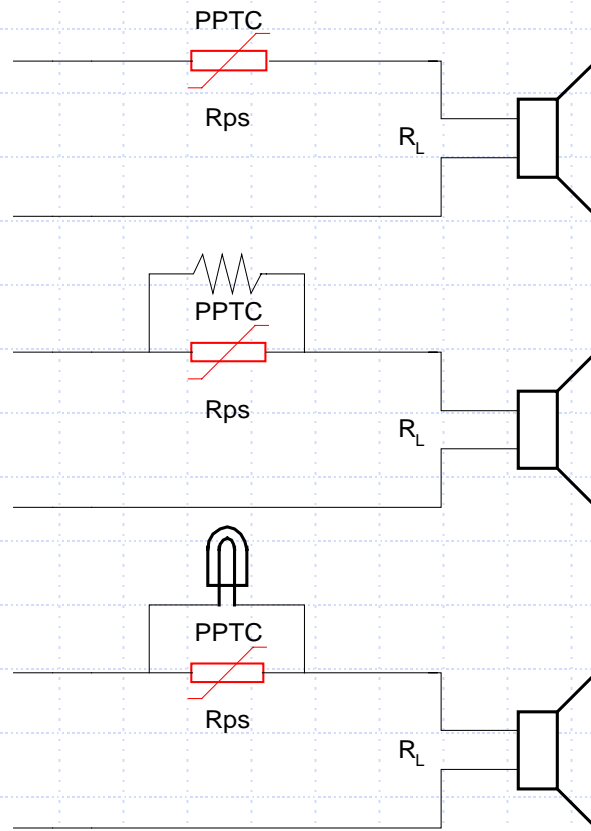
Transformers



Security/Fire Alarm Systems



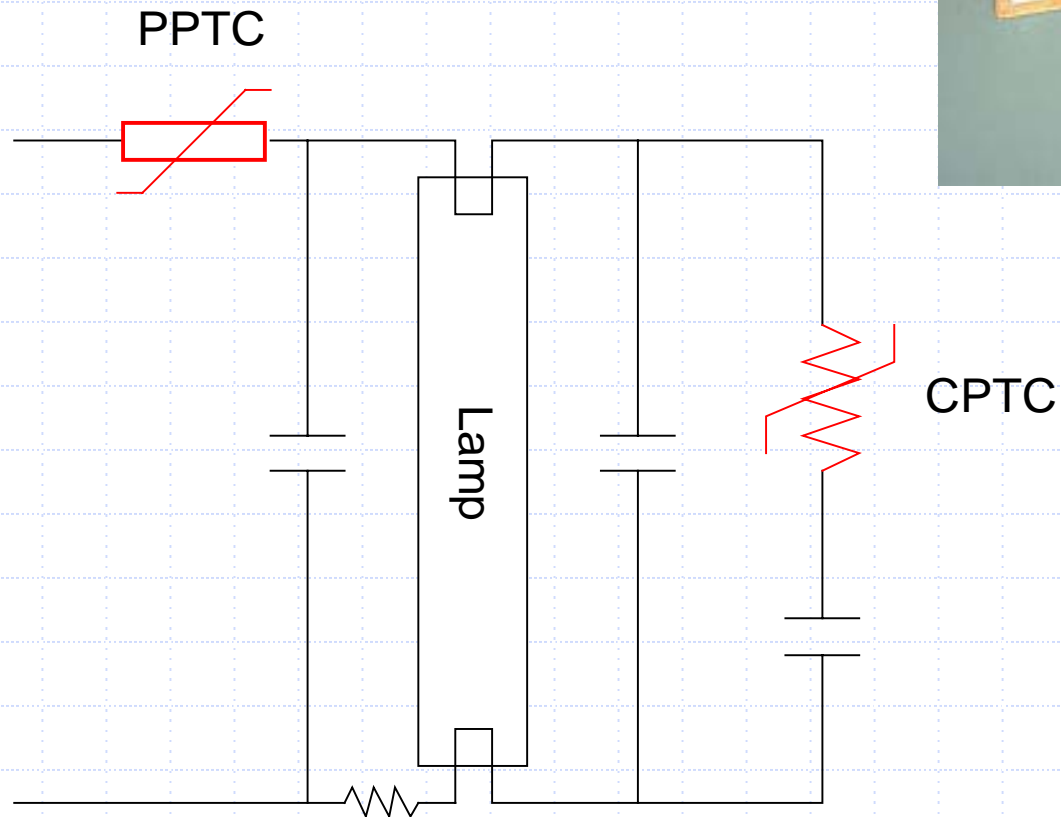
Loudspeakers



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Lighting Ballast



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Products introduce –R-line device

LB series:

Features

- ☐ Radial leaded devices;
- ☐ High voltage surge capabilities
- ☐ Agency Recognition: UL、CSA、TUV

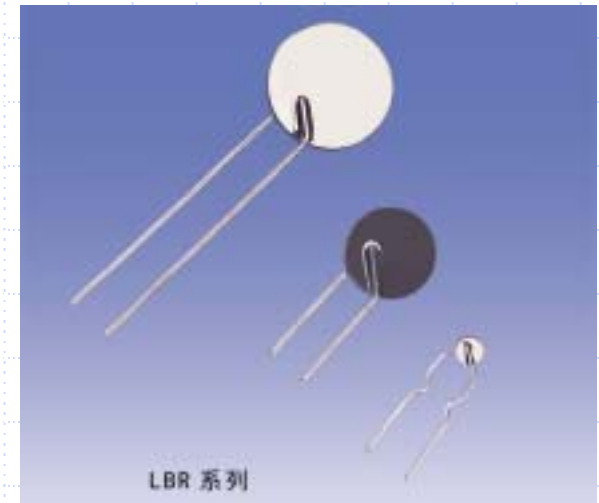


Products introduce –R-line device

LBR series:

Features

- ❑ Radial leaded devices
- ❑ Typical use for ballast
- ❑ Cured, flame retardant epoxy polymer insulating material meets UL94 V-0 requirements
- ❑ Agency Recognition: UL、CSA、TUV



Products introduce –R-line device

LP-75 series:

Features

- ☐ Radial leaded devices
- ☐ higher interrupt voltage
- ☐ Cured, flame retardant epoxy polymer insulating material meets UL94 V-0 requirements
- ☐ Agency Recognition: UL、CSA、TUV



Products introduce –R-line device

LP-60 series:

Features

- ☐ Radial leaded devices
- ☐ Cured, flame retardant epoxy polymer insulating material meets UL94 V-0 requirements
- ☐ Agency Recognition: UL、CSA、TUV

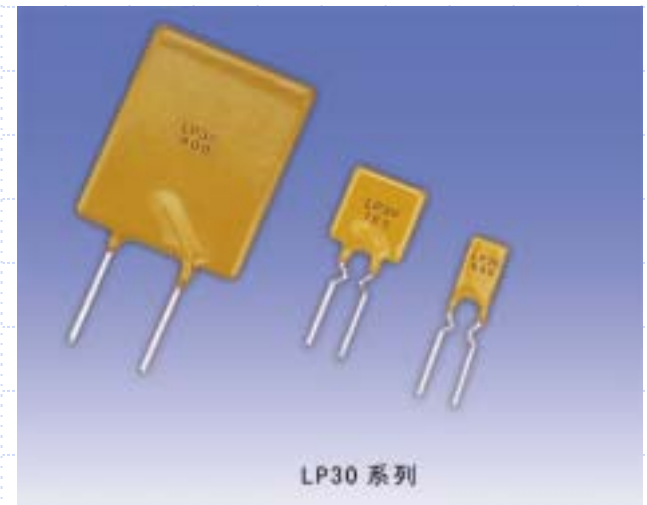


Products introduce –R-line device

LP-30 series:

Features

- ☐ Radial leaded devices
- ☐ Cured, flame retardant epoxy polymer insulating material meets UL94 V-0 requirements
- ☐ Agency Recognition: UL、CSA、TUV



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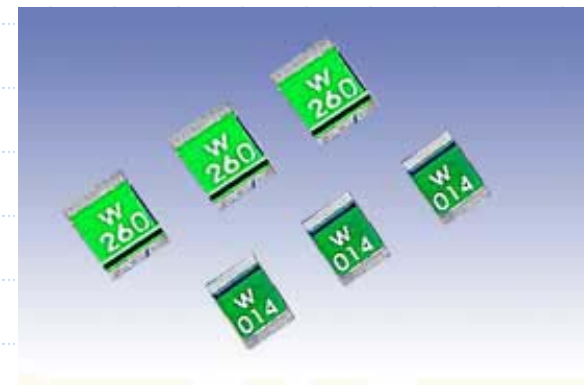
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Products introduce –Surface mount devices

LP-MSM series:

Features

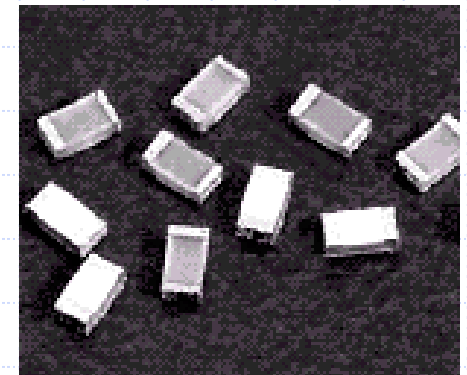
- ☐ Small size of 1812
- ☐ Fast tripping resettable circuit protection
- ☐ Surface mount packaging for automated assembly
- ☐ Agency Recognition: UL、CSA、TUV



Product –SMD FUSE

SMD Fuse:

- ❑ Superior Reliability; Built to Perform in Harsh Environments
- ❑ Rugged Construction to Withstand Vigorous Board Washing, Reflow and Wave Soldering
- ❑ Industry Standard EIA Packages are Compatible with High-Speed Chip Shooters
- ❑ Wide Range of Ampere and Voltage Ratings
- ❑ Complies with EIA-PN-3757 Fuse Qualification Standard



Products introduce –Zinc oxide varistor

NTC:

- ❑ Widely voltage range 18v-1.8kv
- ❑ Fast response to the rapidly increase Voltage
- ❑ Excellent non-linearity voltage
- ❑ Symmetric V-I characteristics
- ❑ Great withstanding surge current
- ❑ No follow-on current
- ❑ Agency recognition: UL、CSA、TUV



Thanks !



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