

# Thyristor Surge Suppressors(TSS): Application Note



## Application Introduction

### ■ Protection of communication lines or high frequency applications

#### Telephone, fax, modem, network voice telephone and other terminal equipments

When the transient overvoltage occurs in the circuit, the semiconductor discharge tube will conduct and direct the overvoltage to the grounding terminal to protect the communication terminal equipment from being damaged by the instantaneous high voltage.

Test Level: 10/700us-5/320us CM 3/4KV-75/100A

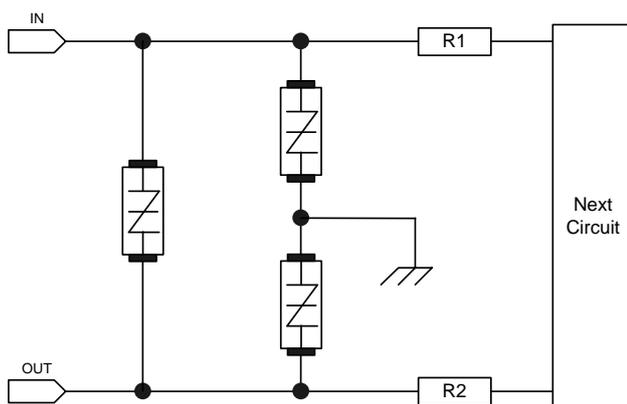
Thinking Product: TSS0080TA (SMA)

TSS0080SB (SMB)

### ■ Signal line protection

The signal circuit is often not grounded. A secondary discharge tube circuit between two signal lines can protect the input end of the protected equipment from the formation of large potential difference before damage occurs. The line provides differential mode protection.

RS232/ RS485—Serial Port



Test Level: 10/700us-5/320us CM/DM 3/4/6KV-75/100/150A

Thinking Product: TSS0080TA/TSS0300TA (SMA)

TSS0080SB/TSS0300SB (SMB)

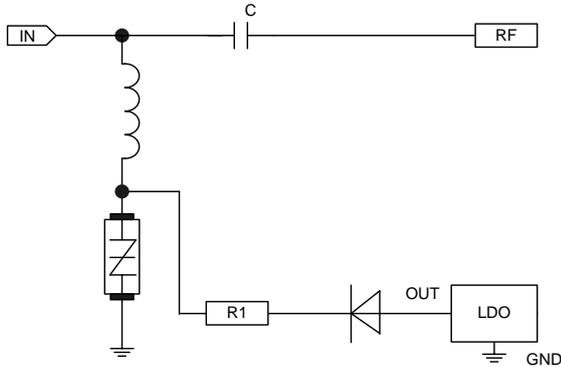
TSS0080SC/TSS0300TSC (SMC)

# Thyristor Surge Suppressors(TSS): Application Note



## ■ Protection of cable TV, coaxial cable and video system

The application requires protection components with low capacitance. Semiconductor discharge tube is very suitable for high frequency field, including cable TV, video system, coaxial cable, etc



Test Level: 10/700us-5/320us CM 3/4KV-75/100A

Thinking Product: TSS0080TA (SMA)

TSS0080SB (SMB)