

PoE SURGE PROTECTION DEVICE

General Description

SP204G is a surge protection device to provide high surge capability to all signal path. It employed our patented surge blocker with shunt devices and parallel devices to guarantee the safety of your device, even there is no secondary protection on your board.

Features

*Gigabit PoE (802.3af / 802.3at)
Protect all 8 lines (CAT5 / CAT6)
IEC 61643-21
IEC 61000-4-5
ITU-T K-Series*

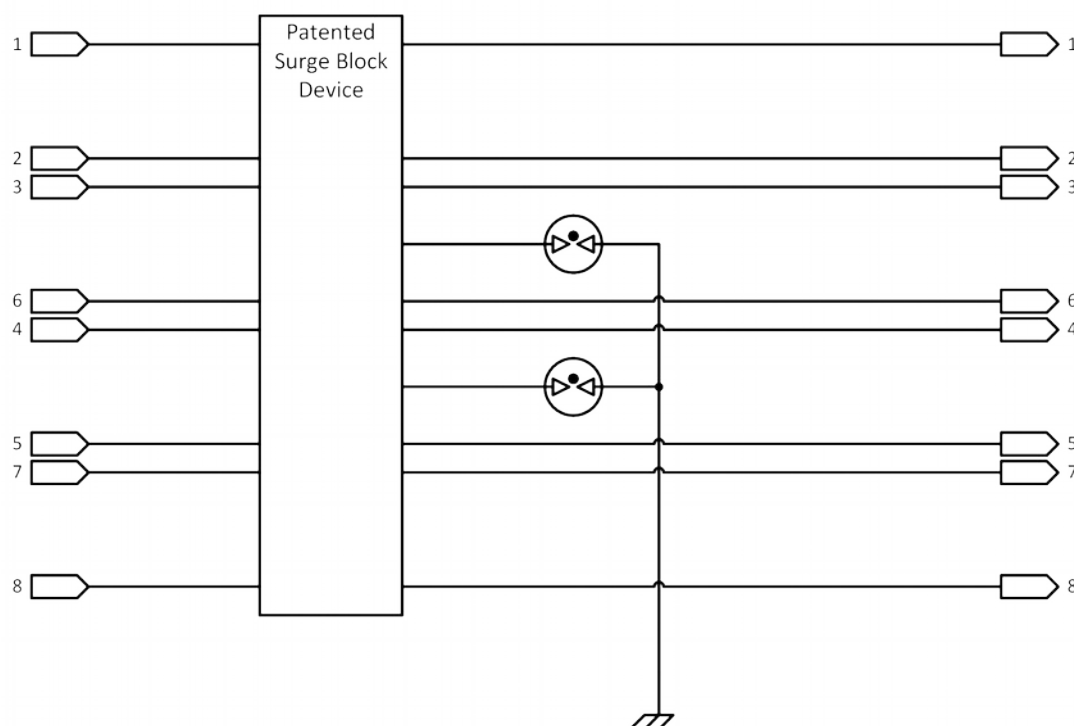


Fig.1 Equivalent Circuit

DEVICE CHARACTERISTICS

Parameter	Symbol	Value	Units
Max Discharge Current (8/20us)	IPP	4	KA
Maximum Operation DC Voltage	VRWM	60	Vdc
Maximum Operation DC Current	IDC	1	A
Common Mode Protection Level (10/700us)	VCMP	15	KV
Differential Mode Protection Level (10/700us)	VDMP	2	KV
Operation Temperature	TJ	-40~85	°C
Data Rate	-	10/100/1000	Mb/s
Insertion Loss @ 10MHz/100MHz	IL (Max)	1	dB
Return Loss @ 10MHz/100MHz	RL (Max)	-20	dB
Response Time	-	5	ns

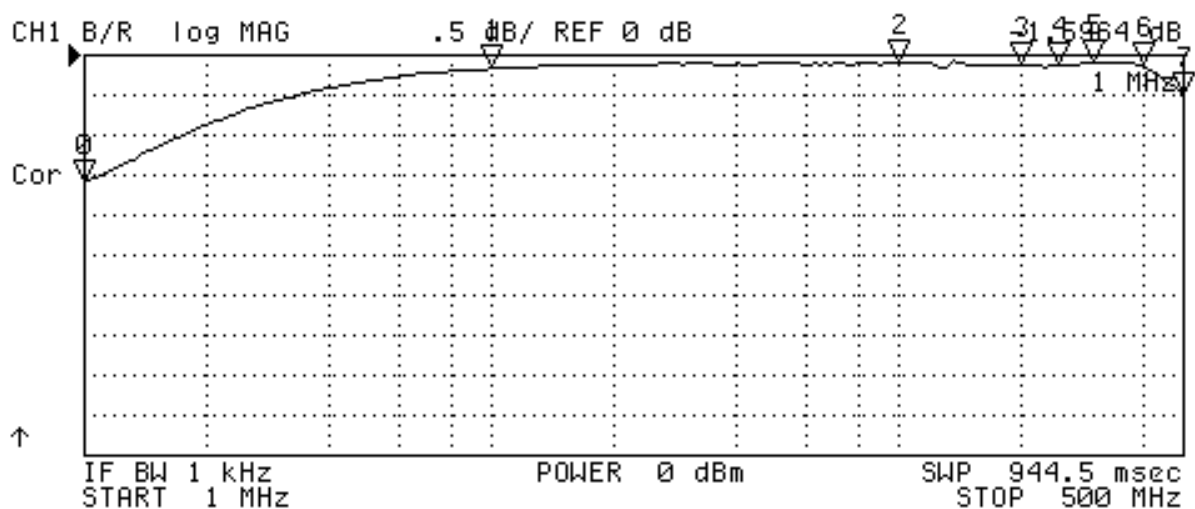


Fig.2 Insertion Loss

TYPICAL APPLICATION

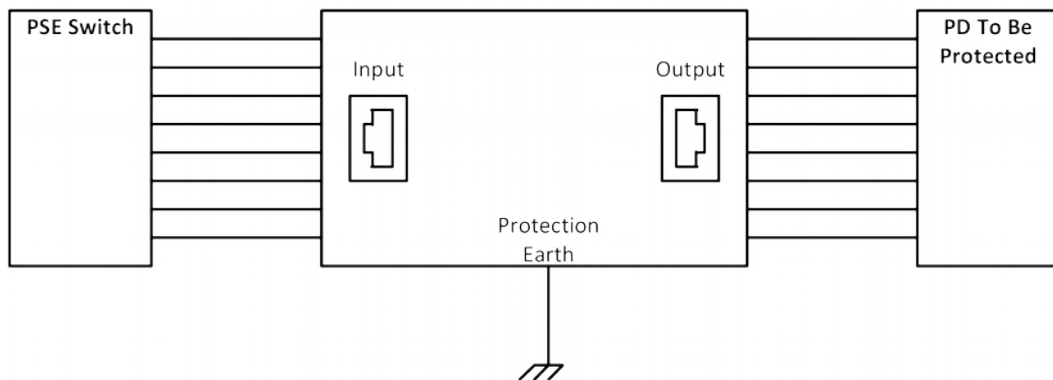


Fig.3 Typical Application

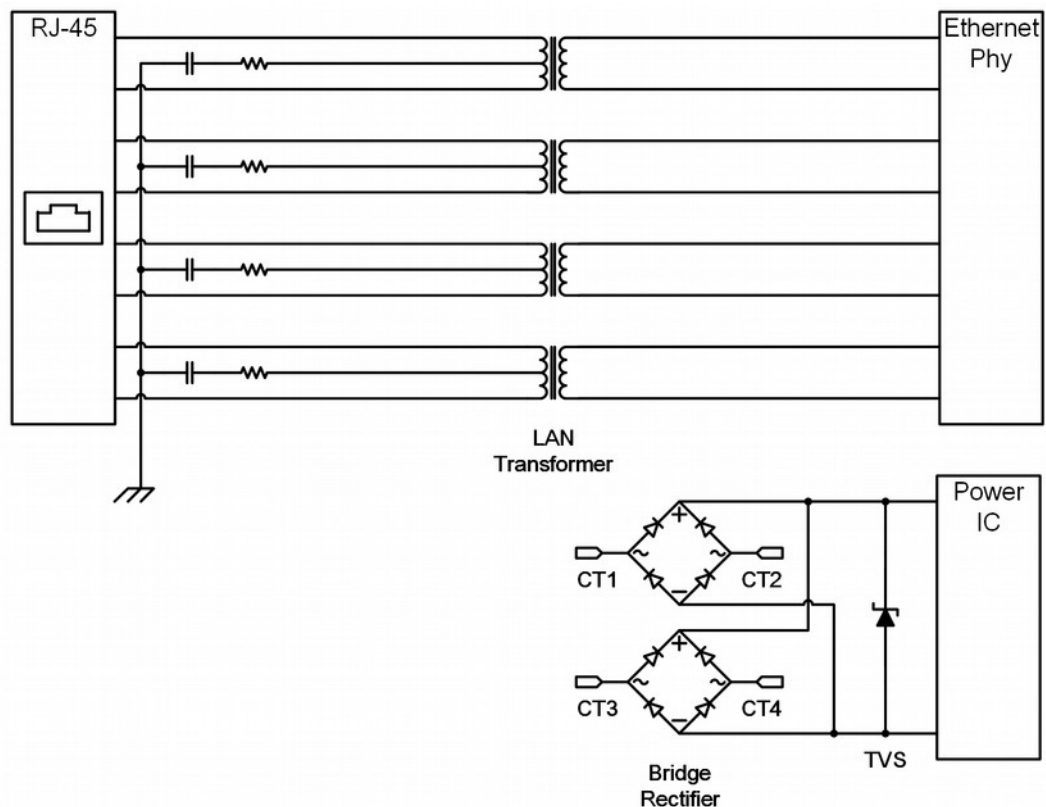
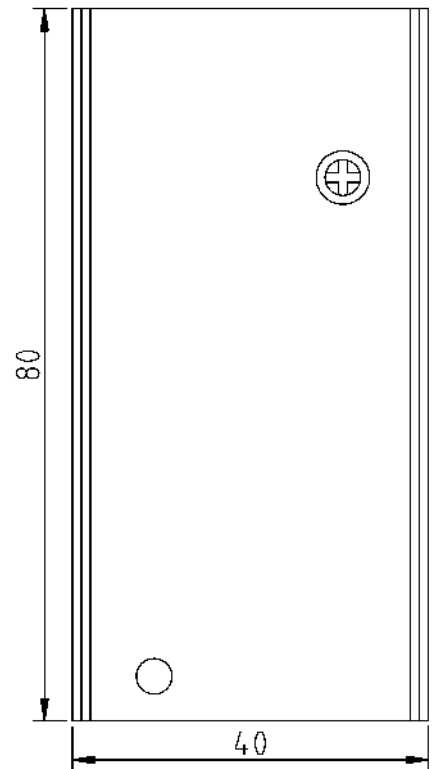
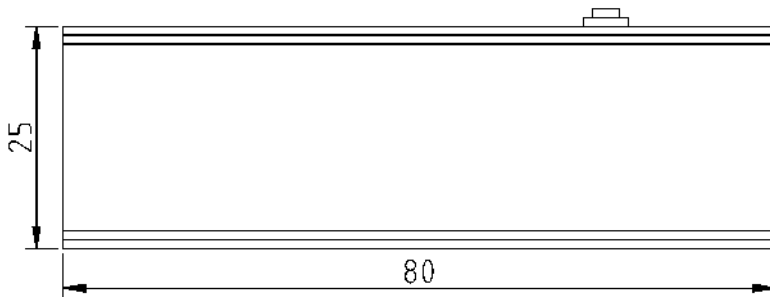
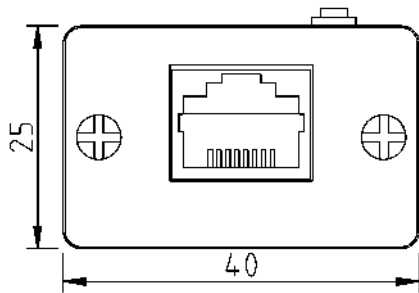


Fig.4 Recommend PD Configuration

DEVICE OUTLINE

Dimension : mm

Weight : 110g



Rev.1.0
Rev.1.01
Rev.1.02

Modification Description

Initial Release
Edit Document Layout
Electrical Characteristics
Modified