

PoE SURGE PROTECTION DEVICEGeneral Description

SP201G is a surge protection device to provide basic surge protection capability to all signal path. The innovation design makes surge protection of PoE/Ethernet easier to be achieved. It used shunt devices to achieve high surge capability.

Features

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

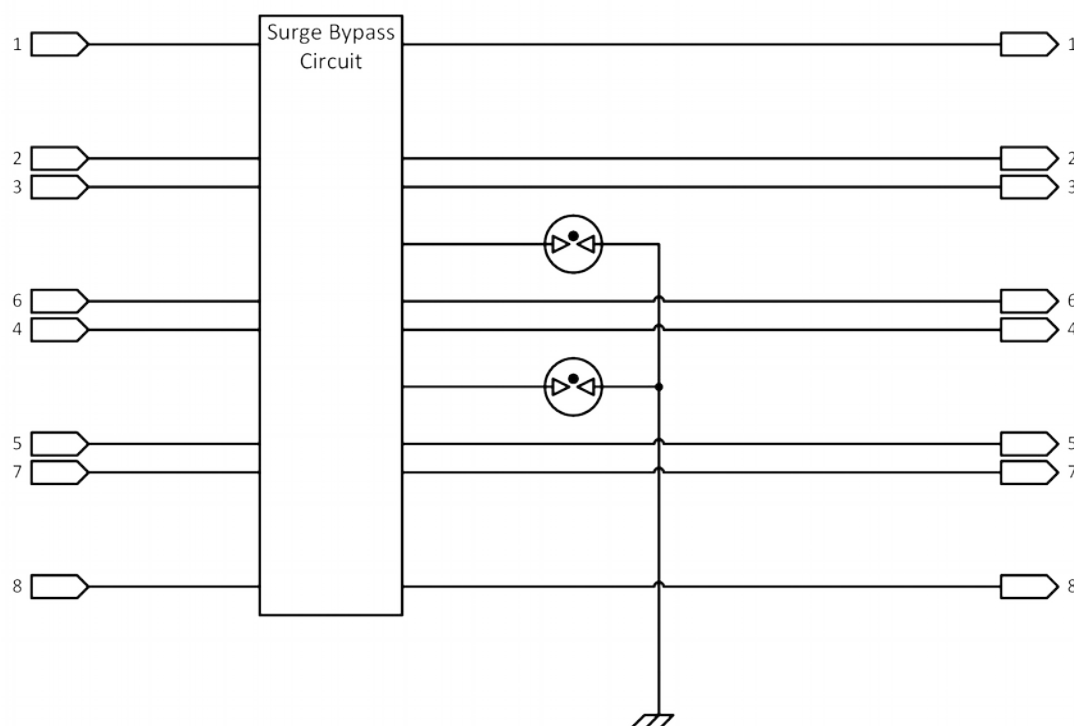


Fig.1 Equivalent Circuit

DEVICE CHARACTERISTICS

Parameter	Symbol	Value	Units
Max Discharge Current (8/20us)	IPP	2	KA
Maximum Operation DC Voltage	VRWM	60	Vdc
Maximum Operation DC Current	IDC	1	A
Common Mode Protection Level (10/700us)	VCMP	10	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	-	1	us

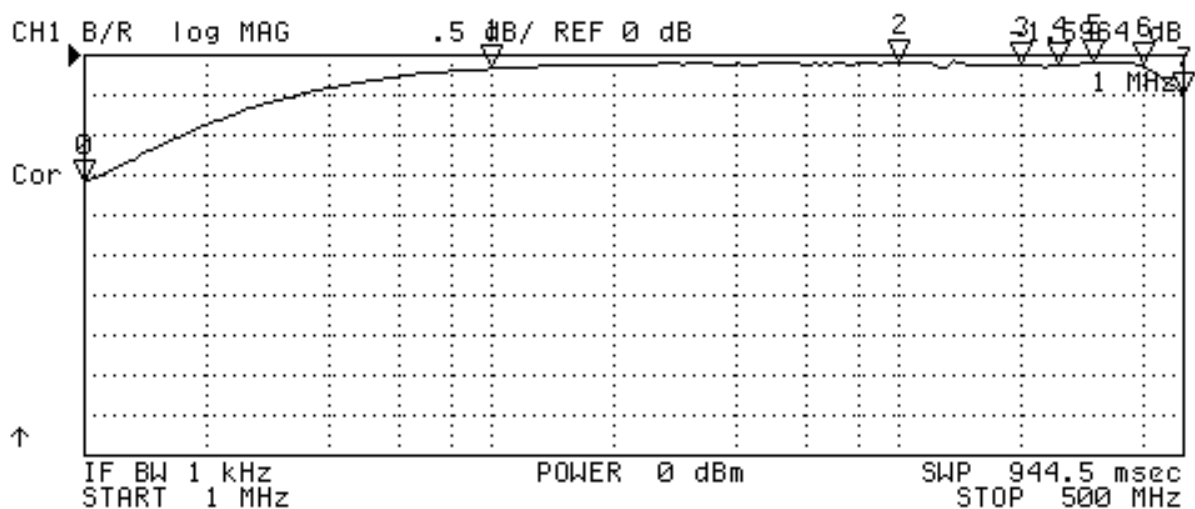


Fig.2 Insertion Loss

TYPICAL APPLICATION

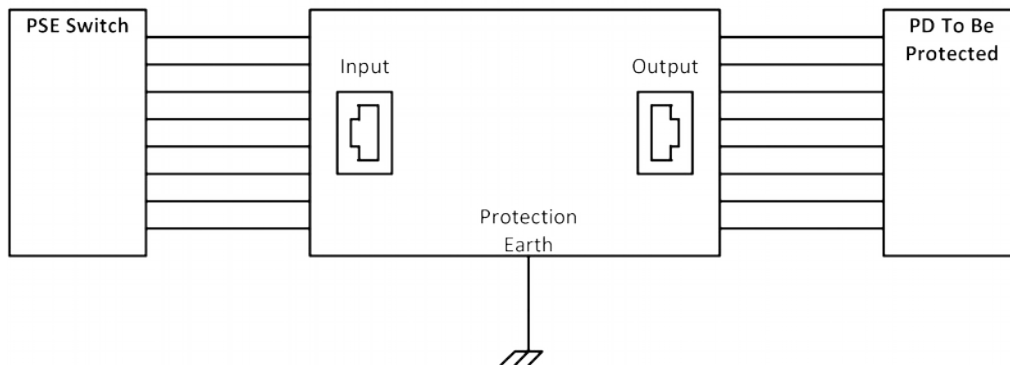


Fig.3 Typical Application

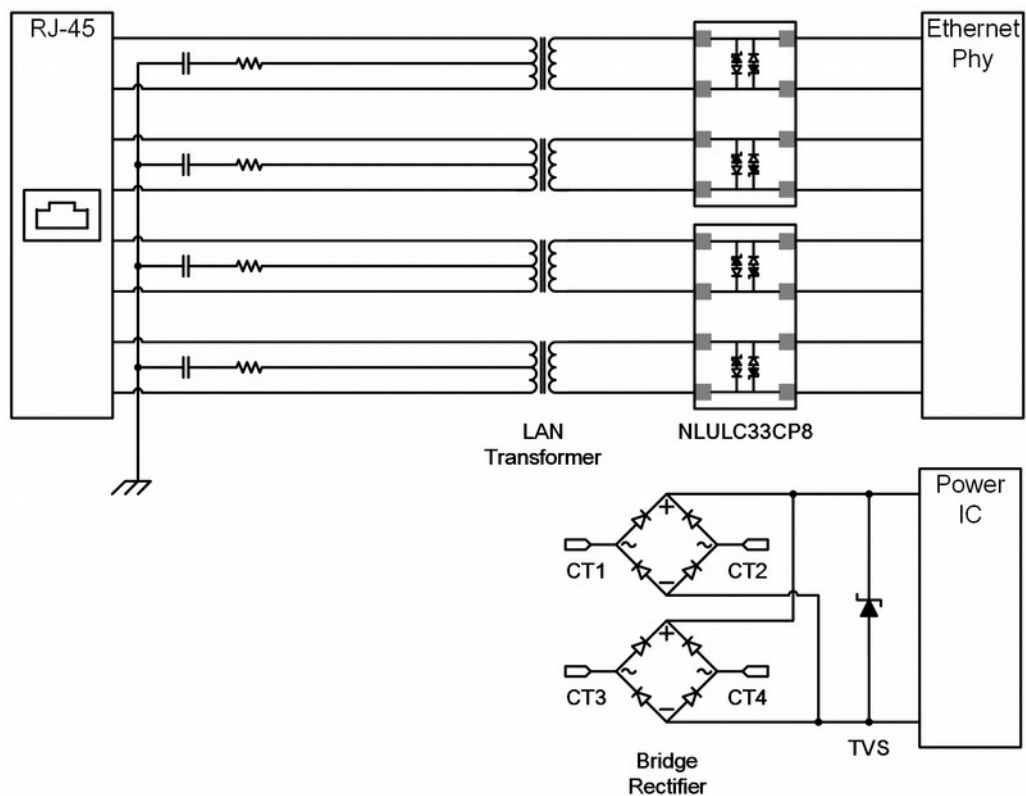


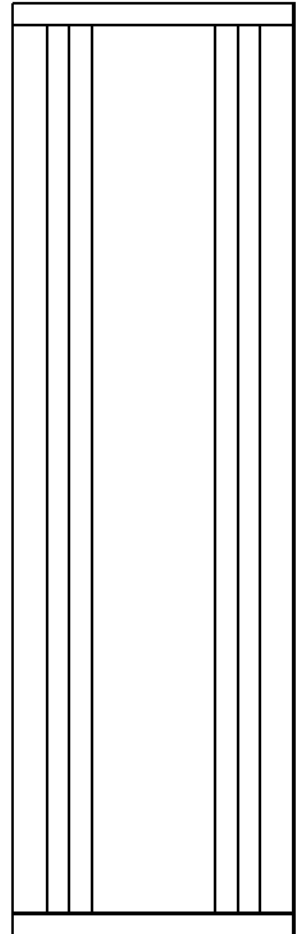
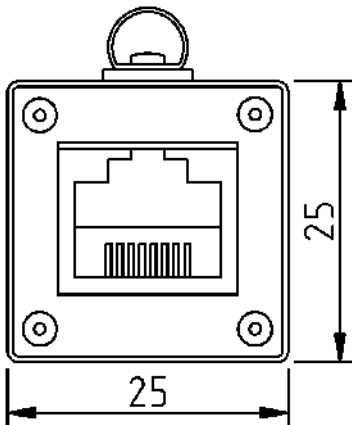
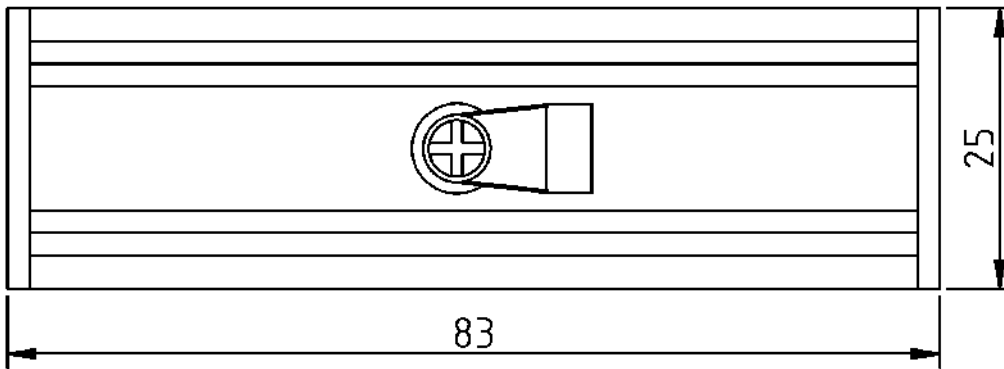
Fig.4 Recommend PD Configuration

SP201G

DEVICE OUTLINE

Dimension : mm

Weight: 77g



Modification Description

Rev.1.0
Rev.1.01
Rev.1.02

Initial Release
Edit Document Layout
Electrical Characteristics
Modified