

## BIDIRECTIONAL DATA LINE PROTECTOR

## **DESCRIPTION**

The GS-P15-A is a Bidirectional Data Line Protection System against EOS (Electrical Over Stress) and ESD (Electrical Static Discharge).

This subminiature male/female connector, designed both for EIA RS232C and V24 with 15 lines, shunts to ground hazardous overvoltages induced on an EIA cable.

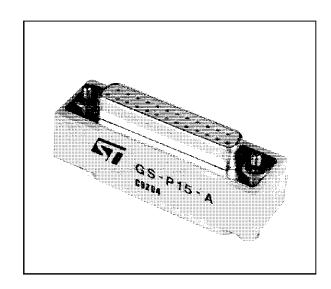
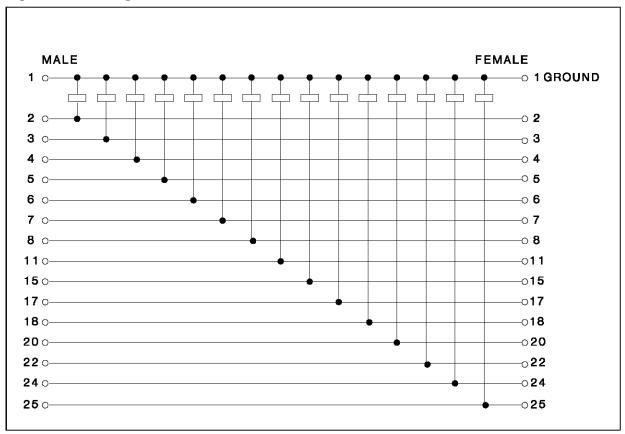


Figure 1. Block diagram



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**ELECTRICAL CHARACTERISTICS** ( $T_{amb} = 25^{\circ}C$  unless otherwise specified  $8/20\mu S$  pulse waveform)

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
Vrm	Stand-off voltage	Irm = 4 mA I/O pin ground		± 24		V
Vrr	Breakdown voltage	Ir = 1 mA I/O pin ground		± 25		V
V <sub>C</sub> I	Clamping voltage	Ipp = 10A			± 31	V
VcI	Clamping voltage	Ipp = 25A			± 36	V
C1	Capacitance	Between two input pins at 0V bias			420	pF
C2	Capacitance	Between one pin at 0V and one at Vrm			140	pF
T <sub>stg</sub>	Storage Temperature Range		-65		+125	°C
Тор	Operating Temperature Range		-65		+100	°C

Figure 2: Symbols definition

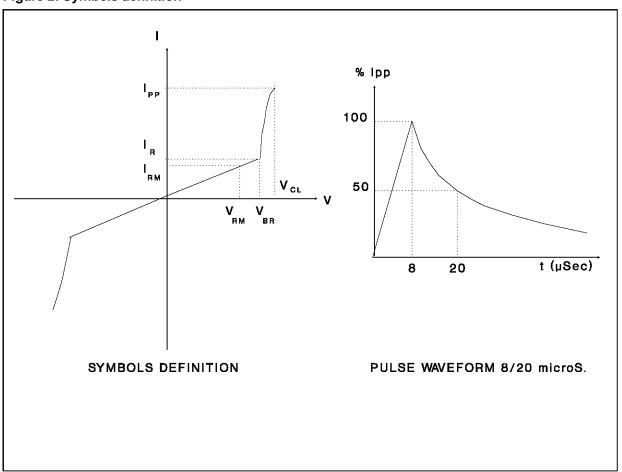
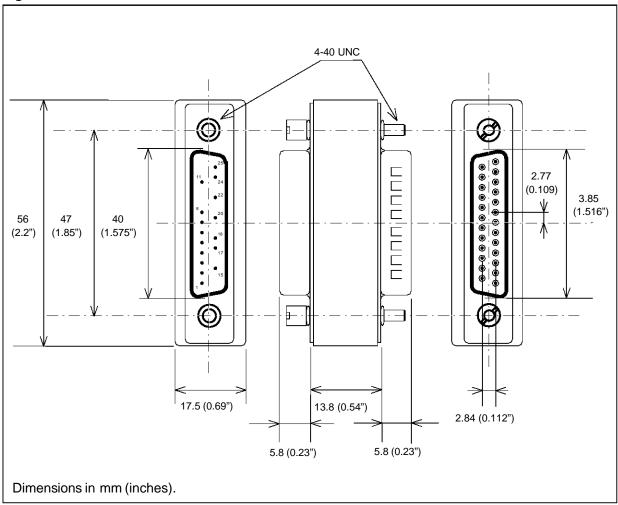


Figure 3.



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