

BIDIRECTIONAL DATA LINE PROTECTOR

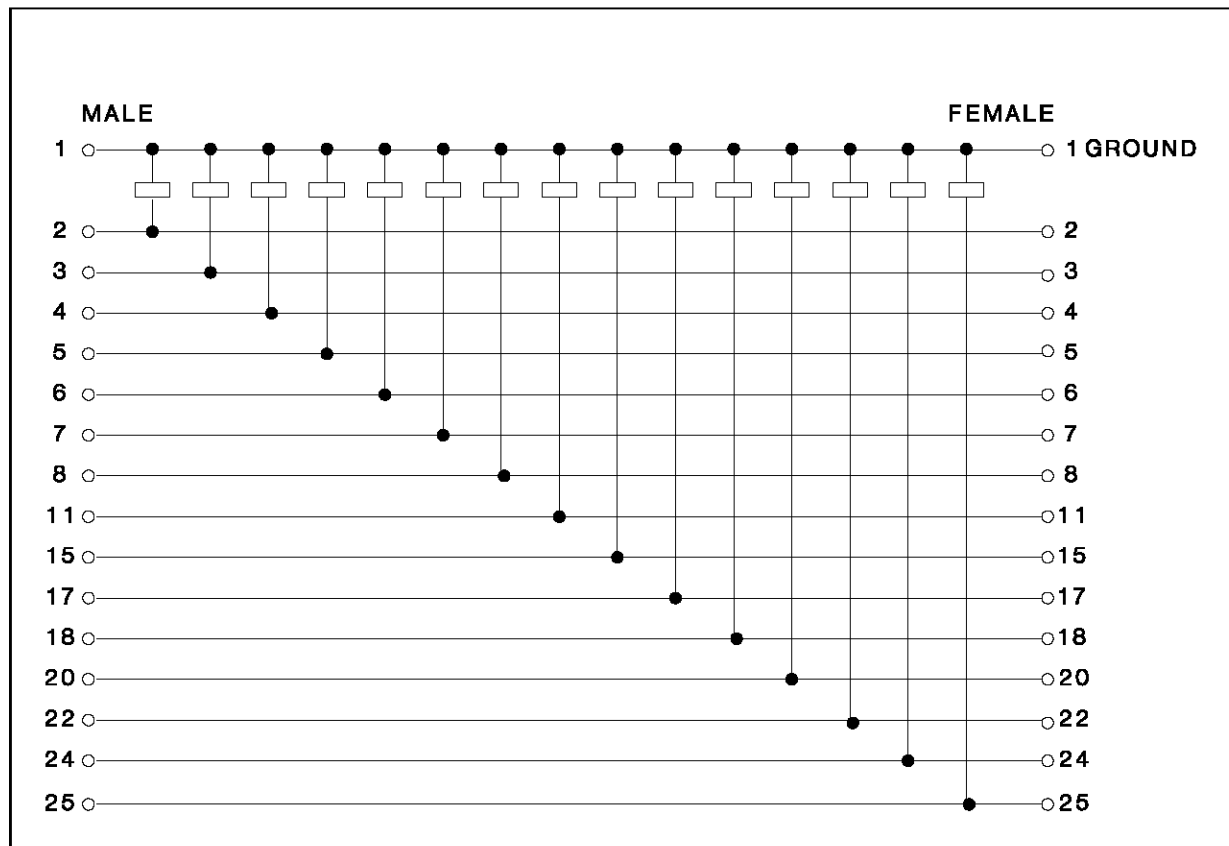
DESCRIPTION

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



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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V_{RM}	Stand-off voltage	$I_{RM} = 4 \text{ mA}$ I/O pin ground		± 24		V
V_{RR}	Breakdown voltage	$I_r = 1 \text{ mA}$ I/O pin ground		± 25		V
V_{CL}	Clamping voltage	$I_{PP} = 10\text{A}$			± 31	V
V_{CL}	Clamping voltage	$I_{PP} = 25\text{A}$			± 36	V
C1	Capacitance	Between two input pins at 0V bias			420	pF
C2	Capacitance	Between one pin at 0V and one at V_{RM}			140	pF
T_{stg}	Storage Temperature Range		-65		+125	$^{\circ}\text{C}$
T_{op}	Operating Temperature Range		-65		+100	$^{\circ}\text{C}$

Figure 2: Symbols definition

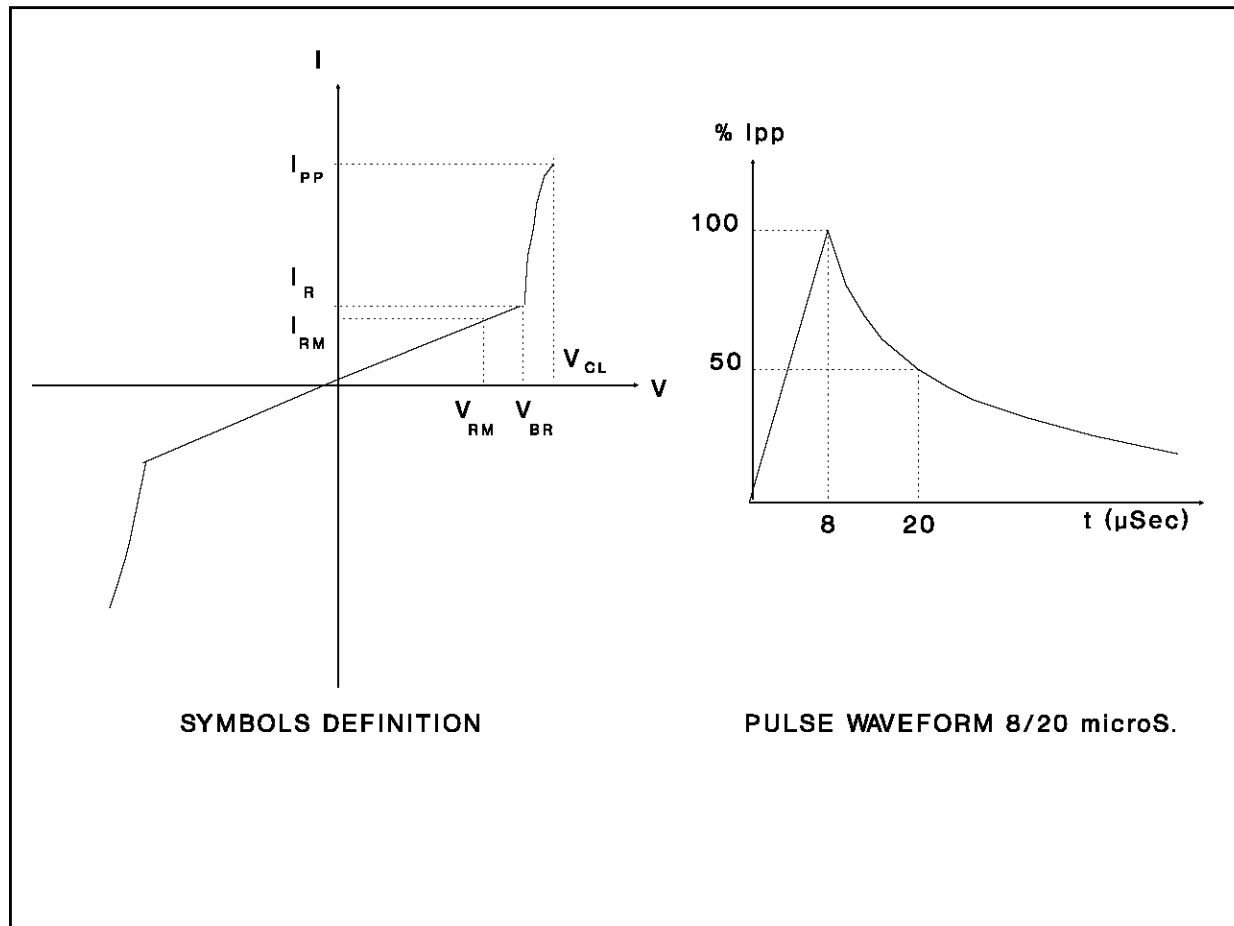
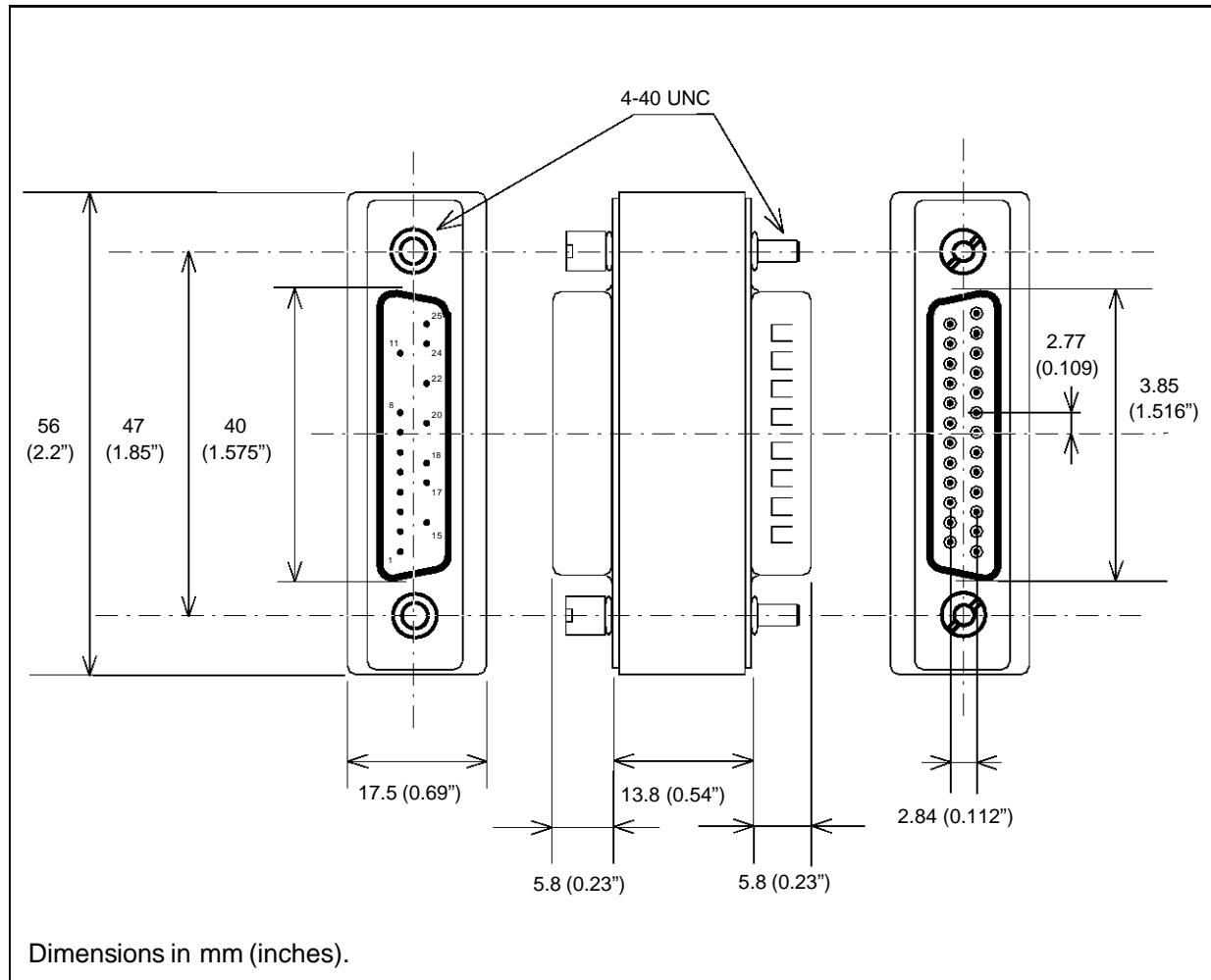


Figure 3.



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