

**BIDIRECTIONAL DATA LINE PROTECTOR**

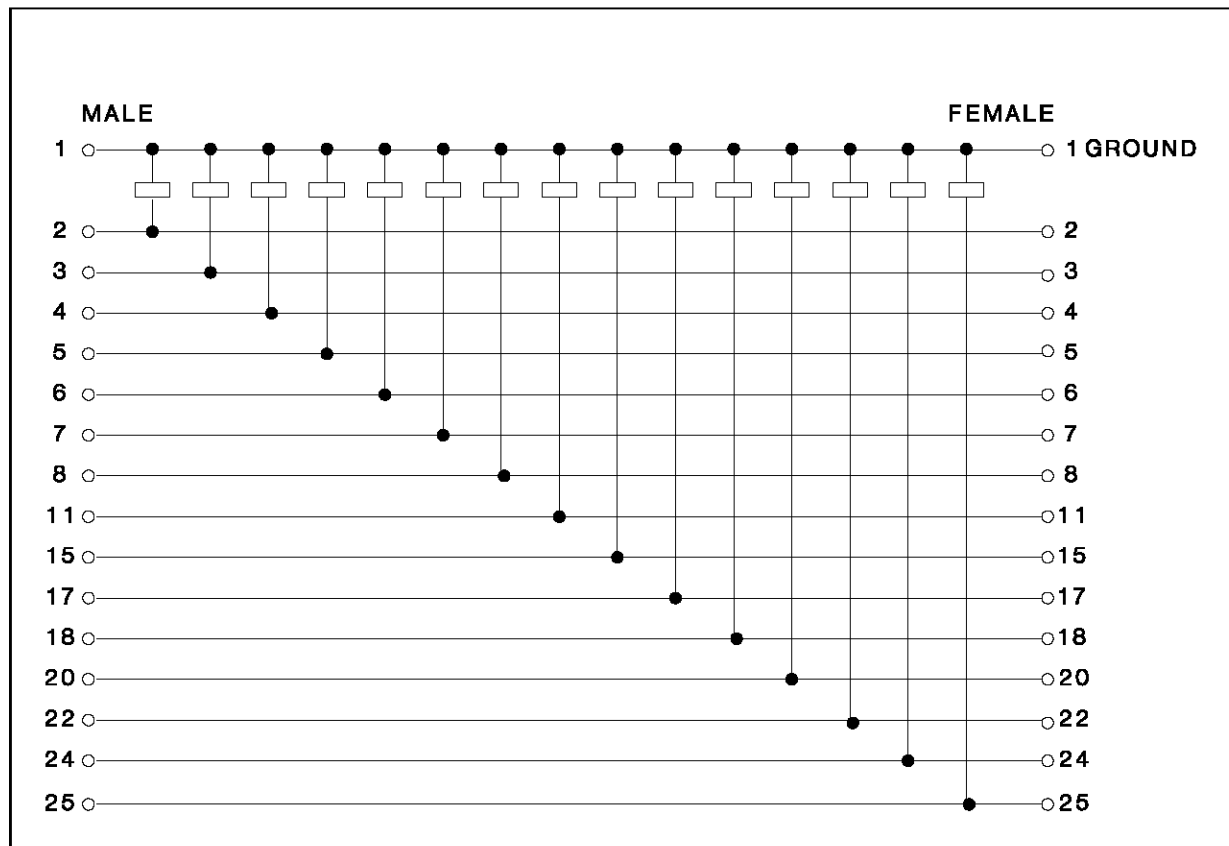
**DESCRIPTION**

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 $\mu\text{s}$  pulse waveform)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
$V_{RM}$	Stand-off voltage	$I_{RM} = 4 \text{ mA}$ I/O pin ground		$\pm 24$		V
$V_{RR}$	Breakdown voltage	$I_r = 1 \text{ mA}$ I/O pin ground		$\pm 25$		V
$V_{CL}$	Clamping voltage	$I_{PP} = 10\text{A}$			$\pm 31$	V
$V_{CL}$	Clamping voltage	$I_{PP} = 25\text{A}$			$\pm 36$	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**

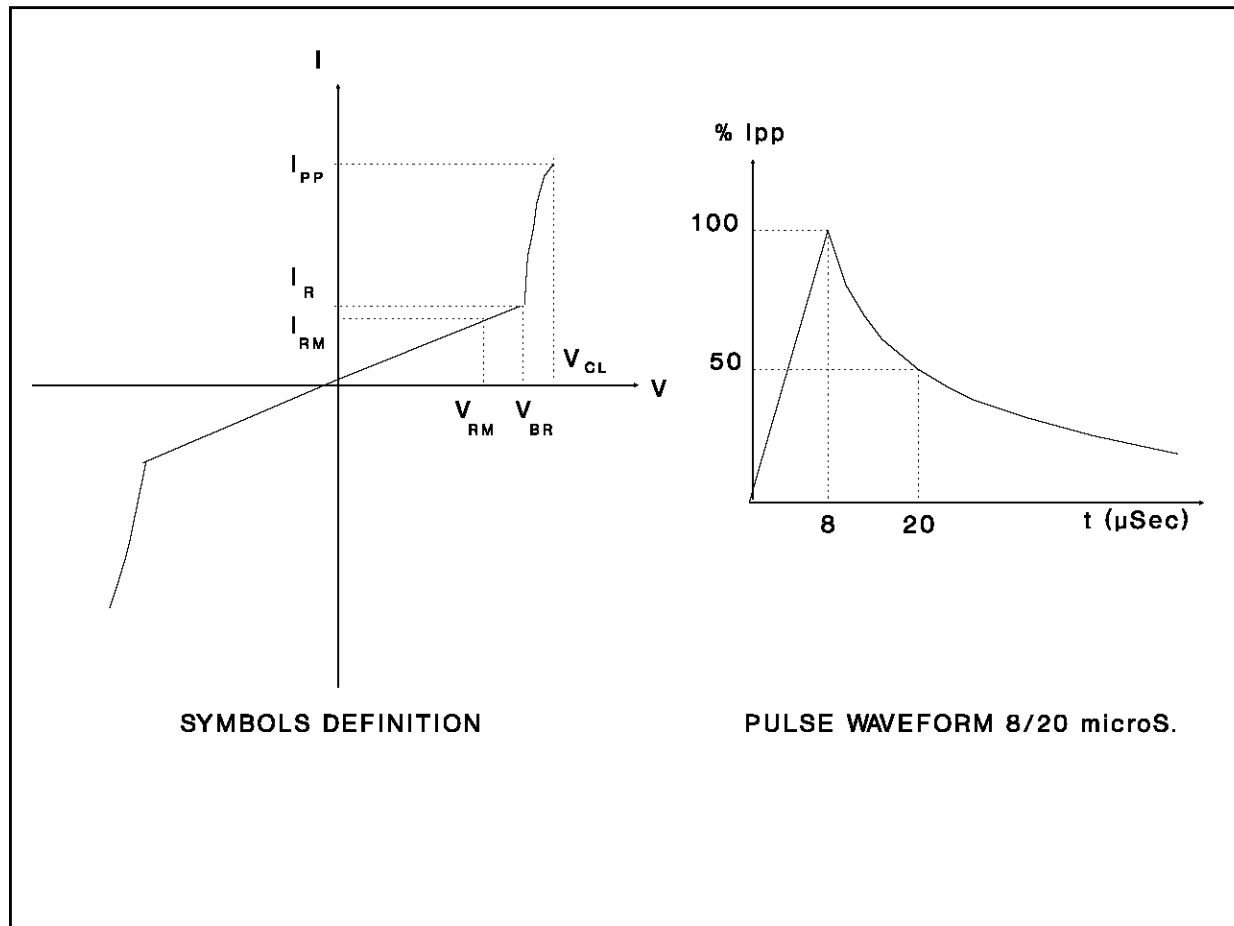
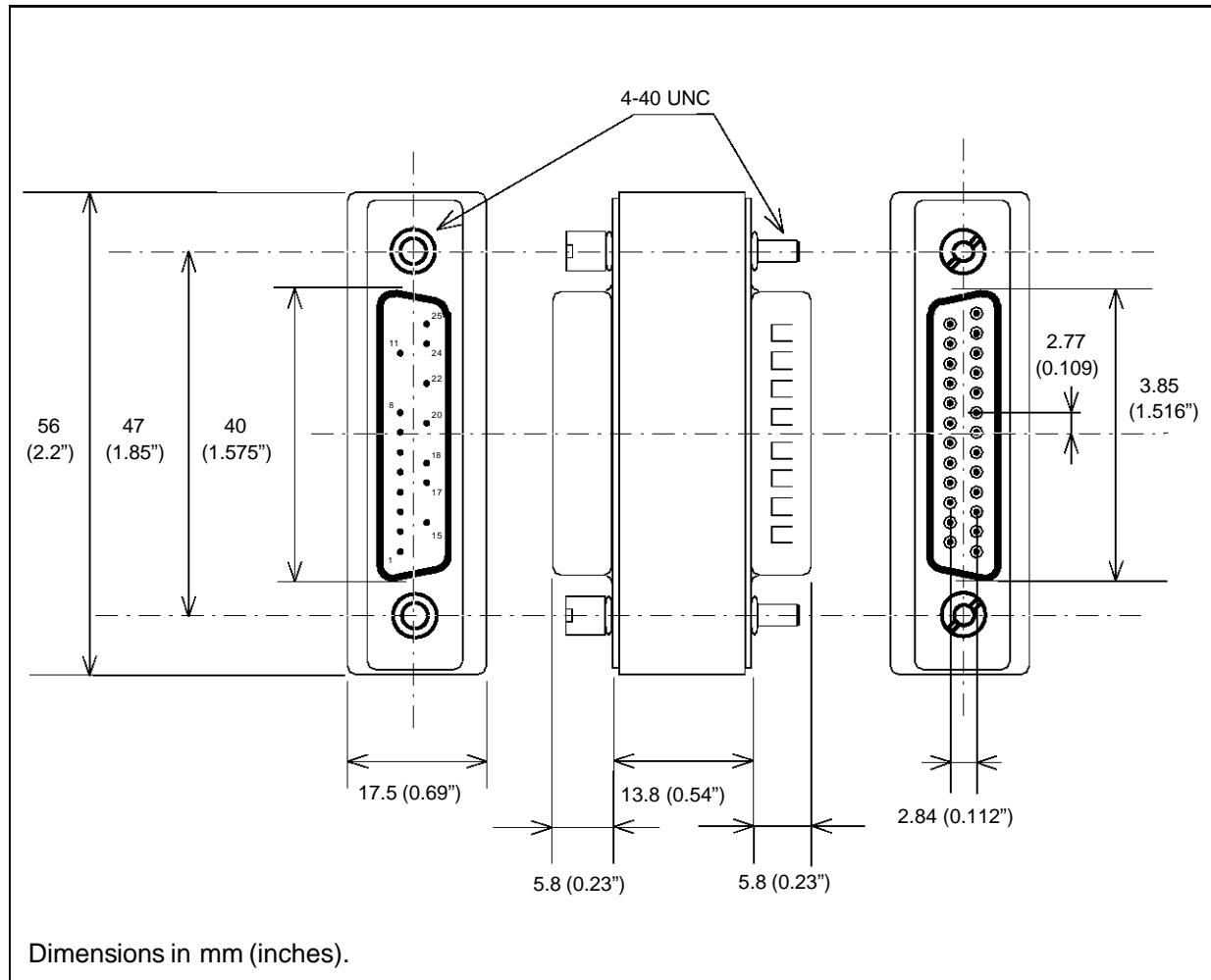


Figure 3.



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