

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.

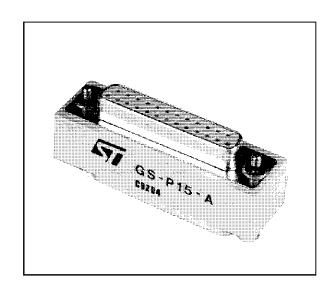
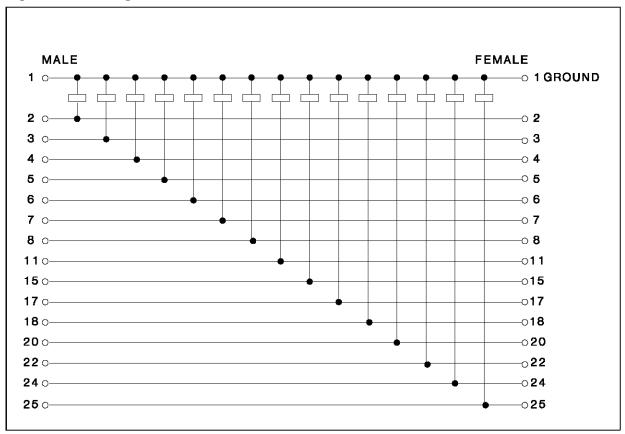


Figure 1. Block diagram



December 1993 1/3

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 _C 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 _{stg}	Storage Temperature Range		-65		+125	°C
Тор	Operating Temperature Range		-65		+100	°C

Figure 2: Symbols definition

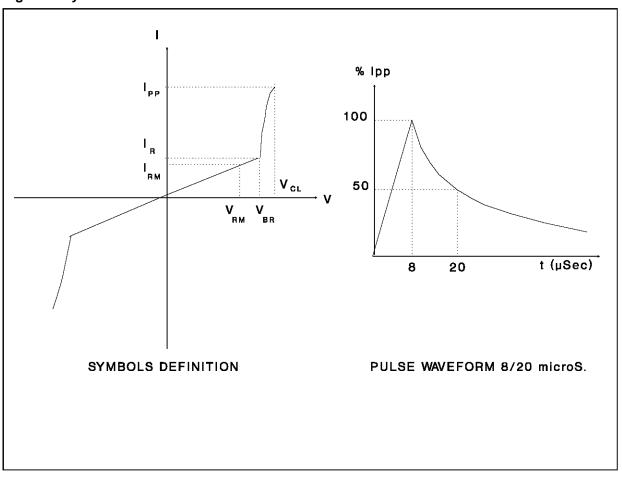
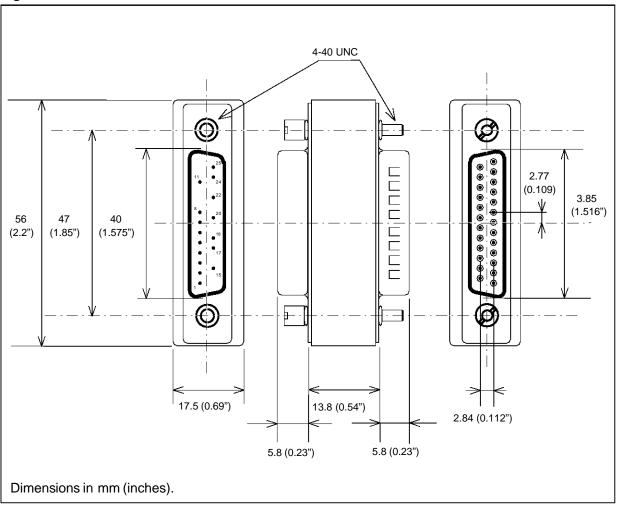


Figure 3.



Information furnished is believed to be accurate and reliable. However, SGS-THOMSON Microelectronics assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of SGS-THOMSON Microelectronics. Specification mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied. SGS-THOMSON Microelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of SGS-THOMSON Microelectronics.

© 1994 SGS-THOMSON Microelectronics - All Rights Reserved

SGS-THOMSON Microelectronics GROUP OF COMPANIES

Australia - Brazil - France - Germany - Hong Kong - Italy - Japan - Korea - Malaysia - Malta - Morocco - The Netherlands - Singapore - Spain - Sweden - Switzerland - Taiwan - Thailand - United Kingdom - U.S.A.

