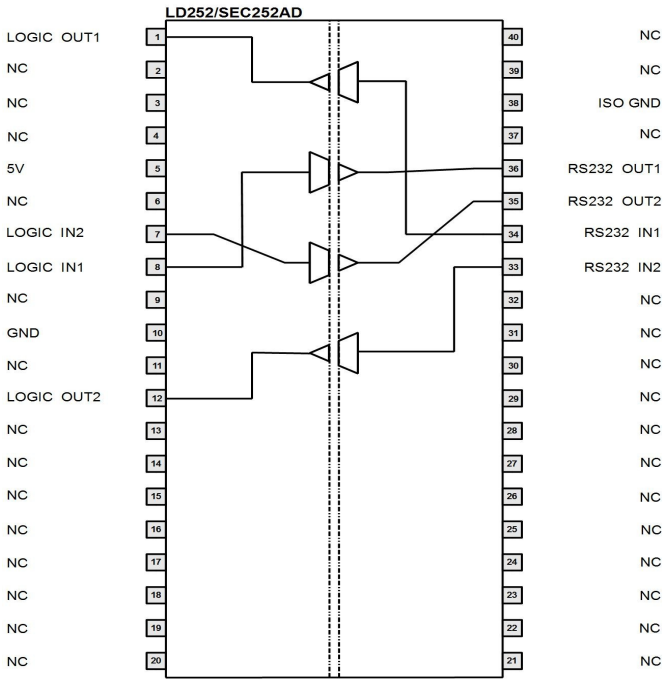
Preliminary Data Sheet **LD252**

Complete, Single Powered, Isolated, Dual RS-232 Driver/Receiver Module

Features

- **Isolated RS232 Data Interface**
- **No External Components**
- **Single 5V Supply**
- **2 x Tx and 2 x Rx Channels**
- **Up to 400kbps and 2500V Isolation**
- **RoHs compliant**



Ordering Information

PART	TEMP.RANGE	DATA RATE	ISOLATION
LD252A-5	-40°C to +85°C	400kbps	2500V
LD252B-5	0°C to +70°C	100kbps	1500V
LD252C-5	0°C to +70°C	19.2kbps	1500V
LD252D-5	0°C to +70°C	9.6kbps	1500V

PACKAGE DIL 40 Module

Absolute Maximum Ratings

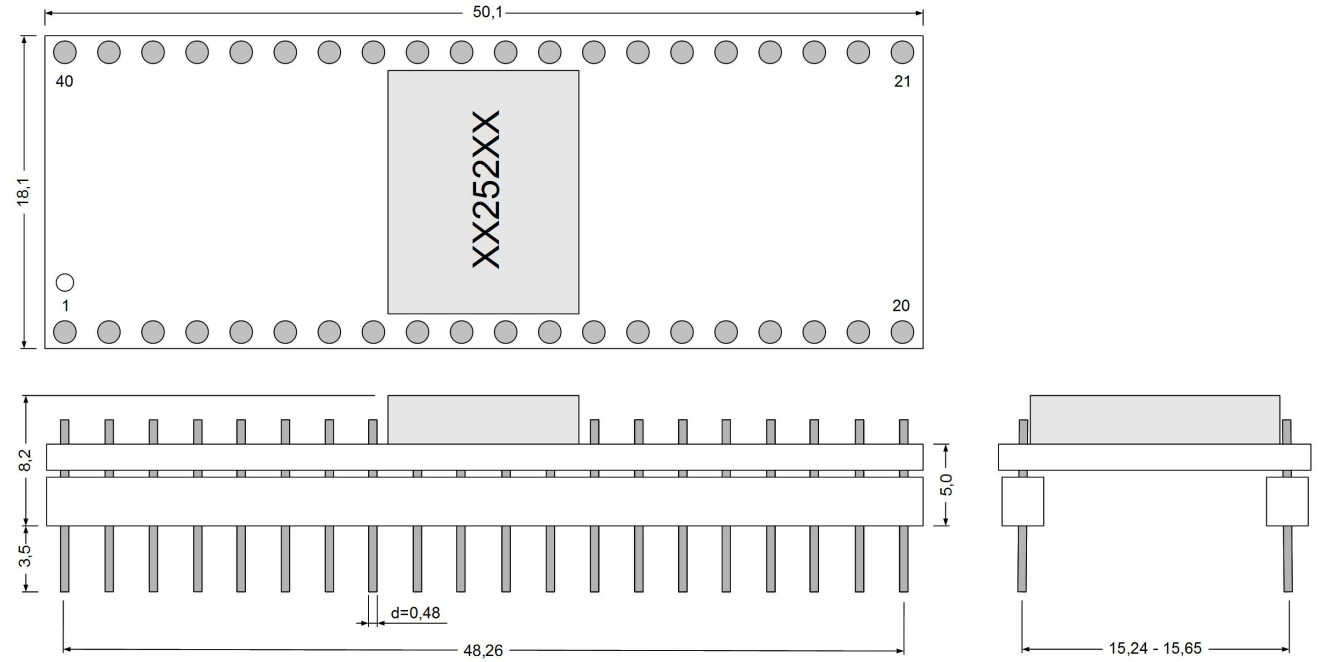
Voltages with respect to GND		**Voltage with respect to ISO GND**	
Supply Voltage, VCC	-0.3V to +6V	RS232 Input Voltage	-25V to +25V
Input Voltage, Logic	-0.3V to (VCC +0.3V)	RS232 Output Voltage	-15V to +15V
Storage Temperature Range	-55°C to +125°C	**Operating Temperature Ranges**	
		LD252A	-40°C to +85°C
		LD252B/C/D	0°C to +70°C

Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Supply Input Range	VCC		4.5	5.0	5.5	V
Supply Input Current	ICC	No Load		16	22	mA
RS232						
Driver Output Voltage Swing	VDO	RL = 3k	+-5	+-5.8		V
Reciever Input Threshold Low	VRIL		0.8	1.3		V
Receiver Input Threshold High	VRIH			1.7	2.5	V
Logic						
Logic Input Threshold Low	VLIL		1.0	1.35		V
Logic Input Threshold High	VLIH			1.75	2.2	V
Logic Output Threshold Low	VLOL				0.4	V
Logic Output Threshold High	VLOH		VCC-0.4			V
ESD RS232 Driver and Receiver Protection			+-10			kV

Electrical Characteristics ***(continued)***						
Parameter	**Symbol**	**Conditions**	**Min**	**Typ**	**Max**	**Units**
Transmission						
Maximum Data Rate LD252D C B A		RL = 3k, CL = 2.50nF 2.00nF 1.00nF 0.25nF	 9.6 19.2 100.0 400.0			kbps
Isolation						
Rated Isolation Voltage LD252D/C/B LD252A	VISO	1 minute, derived from 1 sec. test	 1500 2500			VRMS
Rated Isolation Voltage LD252D/C/B LD252A	VISO	1 second	 +-2600 +-4400			VRMS
Isolation Voltage LD252D/C/B LD252A	VPEAK	Continuous	 300 500			VPEAK

Modul Dimensions



All dimensions are in mm +- 0.2
Pins on a 2,54 mm pitch