

July 5, 2021

GENERAL DESCRIPTION

The **SP337E** is a dual mode serial transceiver containing both RS-232 and RS-485/422 line drivers and receivers. The RS-232 mode provides three drivers and five receivers to support all eight signals commonly used in the DB9 serial port connector (3TX/5RX). In RS-485 mode the device features two independent high speed RS-485/422 transmit and receive channels (2TX/2RX). The default RS-485 configuration is full-duplex, but half-duplex operation can be obtained by tying together the TX and RI pins, and the TXEN and RXEN signals.

The **SP337E** is pin compatible to MaxLinear's SP334.

The **SP337EB** features a maximum data rate of 250kbps in RS-232 mode and a maximum data rate of 15Mbps in RS-485. However, the **SP337EU** features a maximum data rate of 1Mbps in RS-232 mode and a maximum data rate of 15Mbps in RS-485 mode.

The **MaxLinear**-patented high efficiency charge pumps (5,306,954) deliver true RS-232 driver output voltages from a single power supply from 3.3V to 5V. Charge pump outputs are self-monitored to minimize power consumption. The **SP337E** requires only four 0.1μ F capacitors for complete functionality.

All RS-485 receivers or transceivers feature high impedance inputs which allow up to 256 transceivers on a single shared bus. When configured in RS-485 mode, each driver may be individually enabled or put into tri-state, simplifying use on shared bus es or for bidirectional communication. The RS-485/422 drivers can be disabled (high-Z output) by the TXEN enable pin. <u>The R</u>S-232 receiver outputs can be disabled by the RXEN enable pin.

All receivers have advanced failsafe protection to prevent oscillation when inputs are un-connected. In RS-232 mode, each receiver input has a $5k\Omega$ pull-down to ground. in RS-485 mode, receivers will default to output logic 1 if inputs are floating, shorted, or open but terminated.

All driver outputs and receiver inputs are protected against ESD strikes up to ±15,000 volts.

FEATURES

- 3.3V to 5V Single Supply Operation
- Robust ±15kV ESD Protection
 - Human Body Model
- Max Data Rate of 15Mbps in RS-485 mode and up to 1Mbps in RS-232 mode (SP337EU)

Rev. 2.0.0

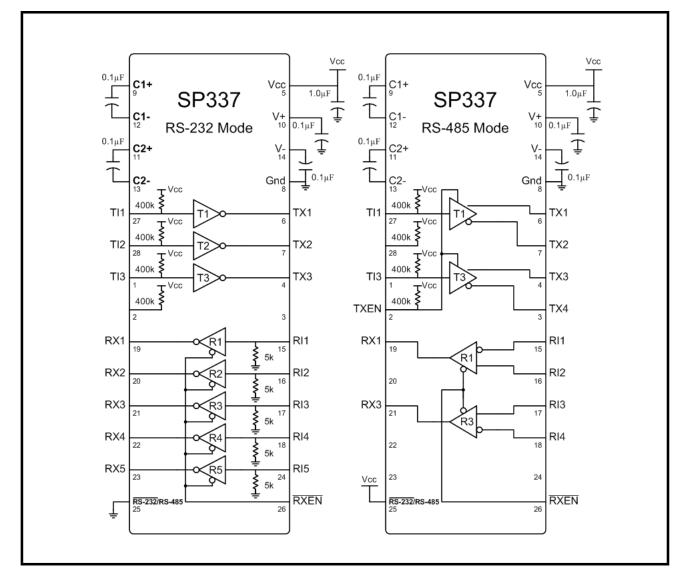
- 3 Drivers, 5 Receivers RS-232/V.28
- 2 Drivers, 2 Receivers RS-485/RS-422
 - Full-Duplex Configuration
 - 1/8th Unit Load, up to 256 receivers on bus
- RS-485 Advanced Failsafe on Open, Short or Terminated Lines
- Full Differential Driver Tri-State (Hi-Z) Control
- Receiver Output Tri-State Control
- TSSOP-28 Package

TYPICAL APPLICATIONS

- Dual Protocol Serial Ports (RS-232 or RS-485)
- Industrial Computers
- Industrial and Process Control Equipment
- Point-Of-Sales Equipment
- Networking Equipment
- HVAC Controls Equipment
- Building Security Equipment







ORDERING INFORMATION

PART NUMBER	OPERATING TEMPERATURE RANGE	PACKAGE	Packaging Method	LEAD-FREE		
SP337EBEY-L	-40°C to +85°C	28-pin TSSOP	Tube	Yes		
SP337EBEY-L/TR	-40°C to +85°C	28-pin TSSOP	Tape and Reel	Yes		
SP337EUEY-L	-40°C to +85°C	28-pin TSSOP	Tube	Yes		
SP337EUEY-L/TR	-40°C to +85°C 28-pin TSSOP Tape and Reel Yes					
XR21B1420IL28-0A-EVB	The XR21B1420 Evaluation Board includes the SP339E transceiver.					

NOTE: For the most up-to-date ordering information and additional information on environmental rating, go to www.maxlinear.com/SP337.



PIN DESCRIPTIONS

Pin Assignments

Pin #	Duy Nave	Time	DESCRIPTION					
PIN#	PIN NAME	Түре	RS-232	RS-485/RS-422				
			T3 Driver TTL input	T3 Driver TTL input				
1	TI3	Input		cc in both RS-232 and RS-485 modes. the SP337EU shutdow n mode.				
			Х*	Only RS-485 mode				
2	TXEN	Input	This pin has a 400k pull-up to Vcc in both RS-232 and RS-485 m The pull-up is disabled in the SP337EU shutdownmode.					
3	TX4	Output	Х*	T3(Z) Inverting Output				
4	TX3	Output	T3 Driver Output	T3(Y) Non-Inverting Output				
5	Vcc	Pow er	Pow er Supply Volta	ge, between 3.3V and 5V				
6	TX1	Output	T1 Driver Output	T1(Y) Non-Inverting Output				
7	TX2	Output	T2 Driver Output	T1(Z) Inverting Output				
8	GND	Pow er	Ground					
9	C1+	Pump	Positive Terminal of Positive Flying Capacitor					
10	V+	Pump	Vdd Storage Capacitor					
11	C2+	Pump	Positive Terminal of Negative Flying Capacitor					
12	C1-	Pump	Negative Terminal of Positive Flying Capacitor					
13	C2-	Pump	Negative Terminal of	Negative Flying Capacitor				
14	V-	Pump	Vss Stor	age Capacitor				
15	RI1	Input	R1 Receiver Input, 5k pull-dow n	R1(B) Receiver Inverting Input				
16	RI2	Input	R2 Receiver Input, 5k pull-dow n	R1(A) Receiver Non-Inverting Input				
17	RI3	Input	R3 Receiver Input, 5k pull-dow n	R3(A) Receiver Non-Inverting Input				
18	R4	Input	R4 Receiver Input, 5k pull-dow n	R3(B) Receiver Inverting Input				
19	RX1	Output	R1 Rec	eiver Output				
20	RX2	Output	R2 Receiver Output	X*				
21	RX3	Output	R3 Rec	ceiver Output				
22	RX4	Output	R4 Receiver Output	Х*				
23	RX5	Output	R5 Receiver Output	Х*				
24	RI5	Input	R5 Receiver Input, 5k pull-dow n	Х*				
25	RS232/RS485	Input	Mode select, either RS-232	(low) or RS-485/422 (high) mode				
26	RXEN	Input	Receiver enable for both RS-23	2 and RS-485/422 mode (Active low)				



Pin Assignments

DIN #	PIN # PIN NAME	Түре	DESCRIPTION				
			RS-232	RS-485/RS-422			
			T1 Driver Input	T1 Driver Input			
27	27 TI1 li	Input	This pin has a 400k pull-up to Vcc in both RS-232 and RS-485 modes. The pull-up is disabled in the SP337EU shutdownmode.				
			T2 Driver Input	Х*			
28	28 TI2	Input	This pin has a 400k pull-up to Vcc in both RS-232 and RS-485 modes. The pull-up is disabled in the SP337EU shutdownmode.				

^{*} Pins marked with an Xin the above table are ignored or "don't care" in the listed mode, provided they do not exceed V_{CC} or go below ground. Some of these pins have a pull-up to V_{CC} which remains active in both RS-232 and RS-485 mode, but is disabled in the SP337EU shutdown mode.



ABSOLUTE MAXIMUM RATINGS

These are stress ratings only and functional operation of the device at these ratings or any other above those indicated in the operation sections to the specifications below is not implied. Exposure to absolute maximum rating conditions for extended periods of time may affect reliability and cause permanent damage to the device.

Supply Voltage V _{CC}	+6.0V		
Receiver Input V _{IN} (DC Input Voltage)	-16V to +16V		
Input Voltage at TTL input Pins	-0.3V to Vcc + 0.5V		
Driver Output Voltage (from Ground)	-7.5V to +12.5V		
Short Circuit Duration, TXout to GND	Continuous		
Storage Temperature Range	-65°C to + 150°C		
Lead Temperature (soldering, 10s)	+300°C		
Pow er Dissipation 28-pin TSSOP (derate 12mW/°C above +70°C)	657mW		
ESD Ratings			
HBM - Human Body Model (TX and RI Pins 3, 4, 6, 7, 15, 16, 17, 18, 24)	±15kV		
HBM - Human Body Model (all other pins)	± 2kV		
IEC 61000-4-2 Airgap Discharge (TX & RI Pins)	±15kV		
IEC 61000-4-2 Contact Discharge (TX & RI Pins)	± 8kV		

CAUTION:

ESD (Electrostatic Discharge) sensitive device. Permanent damage may occur on unconnected devices subject to high energy electrostatic fields. Unus ed devices must be stored in conductive foam or shunts. Personnel should be properly grounded prior to handling this device. The protective foam should be discharged to the destination socket before devices are removed.

ELECTRICAL CHARACTERISTICS

Unless otherwise noted: V_{CC} = +3.3V $\pm 5\%$ or +5.0V $\pm 5\%$, C1-C4 = 0.1 μ F; T_A = T_{MIN} to T_{MAX}.

TYPICAL VALUES ARE AT $V_{CC} = 3.3V$, $T_A = +25^{\circ}C$.

SYMBOL	PARAMETERS	Min.	TYP.	MAX.	UNITS	CONDITIONS					
DC CHARAC	DC CHARACTERISTICS										
lcc	Supply Current (RS-232)		1.5	6.0	mA	No Load, RS232/RS485 = 0V					
lcc	Supply Current (RS-485)		7.0	15	mA	No Load, RS232/RS485 = Vcc					
lcc	Vcc Shutdow n Current (SP337EU only)		1.0	10.0	μΑ	TXEN = 0V, RXEN = V _{CC} (SP337EU only)					
TRANSMITT	ER and LOGIC INPUT PINS: Pins 1, 2	, 25, 26,	27, 28								
V _{IH}	Logic Input Voltage HIGH	2.0			V	Vcc = 3.3V					
V _{IH}	Logic Input Voltage HIGH	2.4			V	Vcc = 5.0V					
V _{IL}	Logic Input Voltage LOW			0.8	V						
կլ	Logic Input Leakage Current			1.0	μA	Input High (V _{IN} = V _{cc})					
I _{PU}	Logic Input Pull-up Current			15.0	μA	Input Low (V _{IN} =0V)					
V _{HYS}	Logic Input Hysteresis		0.5		V						



Unless otherw ise noted: V_{CC} = +3.3V $\pm5\%$ or +5.0V $\pm5\%$, C1-C4 = 0.1 μ F; T_{A} = T_{MIN} to T_{MAX} . Typical values are at V_{CC} = 3.3V, T_{A} = +25°C.

SYMBOL	PARAMETERS	Min.	TYP.	MAX.	UNITS	CONDITIONS
RS-232 an	d RS-485/422 RECEIVER OUTPUTS:	Pins 19,	20, 21,	22, 23		
V _{OH}	Receiver Output Voltage HIGH	V cc -0.6			V	I _{OUT} = 1.0mA
V _{OL}	Receiver Output Voltage LOW			0.4	V	I _{OUT} = -3.2mA
loss	Receiver Output ShortCircuit Current		±40	±65	mA	0 < V _O < V _{CC}
l _{oz}	Receiver Output Leakage Current		±0.1	±1.5	μA	Receivers Disabled
SINGLE-EN	NDED RECEIVER INPUTS (RS-232)					
	Input Voltage Range	-15		+15	V	
	Input Throohold Low	0.6	1.2		V	V _{CC} = 3.3V
	Input Threshold Low	0.8	1.5		V	V _{CC} = 5.0V
			1.5	2.0	V	V _{CC} = 3.3V
	Input Threshold HIGH		1.8	2.4	V	V _{CC} = 5.0V
	Input Hysteresis		0.5		V	
	Input Resistance	3	5	7	kΩ	
DIFFEREN	TIAL RECEIVER INPUTS (RS-485 / R	S-422)				
R _{IN}	Receiver Input Resistance	96			kΩ	$-7V \le V_{CM} \le +12V$
V _{TH}	Receiver Differential Threshold	-200	-125	-50	mV	
ΔV_{TH}	Receiver Input Hysteresis		30		mV	V _{CM} =0V
				125	μA	V _{IN} = 12V
I _{IN}	Input Current			-100	μA	V _{IN} = -7V
SINGLE-EN	NDED DRIVER OUTPUTS (RS-232)	1 1				
Vo	Output Maltana Outing	±5.0	±5.4		V	Output Loaded with $3k\Omega$ to Gnd
۷O	Output Voltage Swing			±7.0	V	No Load Output
	Short Circuit Current			±60	mA	V _O = 0V
	Pow er Off Impedance	300	10M		Ω	$V_{CC} = 0V; V_{O} = \pm 2V$
DIFFEREN	TIAL DRIVER OUTPUTS (RS-485/R	S-422)				
		2		V _{CC}	V	R_L = 100 Ω (RS-422), Figure 2
\ <i>\</i>		1.5		V _{CC}	V	$R_L = 54\Omega$ (RS-485), Figure 2
V _{OD}	Differential Driver Output (Tx_Out)	1.5		V _{CC}	V	V _{CM} =-7V, Figure 3
		1.5		V _{CC}	V	V _{CM} =+12V, Figure 3
ΔV_{OD}	Change In Magnitude of Differential Output Voltage	-0.2		+0.2	V	R _L = 54Ω or 100Ω, Figure 2
V _{OC}	Driver CommonMode Output Voltage			3	V	$R_L = 54\Omega$ or 100 Ω , Figure 2
ΔV_{OC}	Change In Magnitude of Common Mode Output Voltage			0.2	V	$R_L = 54\Omega$ or 100 Ω , Figure 2



Unless otherwise noted: V_{CC} = +3.3V $\pm5\%$ or +5.0V $\pm5\%$, C1-C4 = 0.1 μ F; T_{A} = T_{MIN} to T_{MAX} . Typical values are at V_{CC} = 3.3V, T_{A} = +25°C.

SYMBOL	PARAMETERS	Min.	TYP.	MAX.	UNITS	CONDITIONS
I _{OSD}	Driver Output Short Circuit Current			±250	mA	V = +12V to -7V, Figure 4
ю	Output Leakage Current			±100	μA	TXEN = 0V or Shutdow n, V_0 = +12V to -7V, Vcc = 0V or 5.25V
TIMING CHA	RACTERISTICS					
RS-232 (SP3	37EB ONLY) DATA RATE = 250kbps	, ONE TF	RANSMIT	TER SV	VITCHIN	G
	Maximum Data Rate	250			kbps	$R_L = 3k\Omega$, $C_L = 1000pF$
t _{PHL} , t _{PLH}	Receiver Propagation Delay		100		ns	C _L = 150pF, Figures 20 and 21
t _{PHL} -t _{PLH}	Receiver Skew			100	ns	C _L = 150pF, Figures 20 and 21
t _{PHL} , t _{PLH}	Driver Propagation Delay		800		ns	
t _{PHL} -t _{PLH}	Driver Skew			400	ns	
	Receiver Output Enable time			400	ns	
	Receiver Output Disable time			400	ns	
t _{THL,} t _{TLH}	Transition-Region Slew Rate from +3.0V to -3.0V or -3.0V to +3.0V	4		30	V/µs	$V_{CC} = 3.3V, R_L = 3k\Omega \text{ to } 7k\Omega,$ $C_L = 150 \text{pF to } 2500 \text{pF},$ Figures 18 and 19
RS-232 (SP3	37EU ONLY) DATA RATE = 1Mbps,(ONE TRA	NSMITT	ER SWI	TCHING	
	Maximum Data Rate	1			Mbps	$R_L = 3k\Omega, C_L = 250pF$
t _{PHL} , t _{PLH}	Receiver Propagation Delay		100		ns	C _L = 150pF, Figures 20 and 21
t _{PHL} -t _{PLH}	Receiver Skew			100	ns	C _L = 150pF, Figures 20 and 21
t _{PHL} , t _{PLH}	Driver Propagation Delay		250		ns	
t _{PHL} -t _{PLH}	Driver Skew			150	ns	
	Receiver Output Enable time			400	ns	
	Receiver Output Disable time			400	ns	
t _{THL,} t _{TLH}	Transition-Region Slew Rate from +3.0V to -3.0V or -3.0V to +3.0V	50			V/µs	V_{CC} = 3.3V, R _L = 3k Ω , C _L = 150pF, Figures 18 and 19
RS-485/RS-42	22 (SP337EB and SP337EU) DATA F	RATE = 1	5Mbps,	ONE TR/	ANSMIT	rer switching
	Maximum Data Rate	15	20		Mbps	R_{DIFF} = 54 Ω , C_{L} = 50pF
t _{DPHL} , t _{DPLH}	Differential Output Propagation Delay Time		60	120	ns	Figures 5 and 6
t _{R,} t _F	Driver Rise and Fall Time		15	25	ns	Figures 5 and 6
│t _{DPHL} - t _{DPLH} │	Driver Propagation Delay Skew			10	ns	Figures 5 and 6
t _{DZH} , t _{DZL}	Driver Output Enable Time			400	ns	Figures 7, 8, 9 and 10
t_{DHZ}, t_{DLZ}	Driver Output Disable Time			400	ns	Figures 7, 8, 9 and 10
t _{PHL} , t _{PLH}	Receiver Propagation Delay		80	150	ns	Figures 11 and 12



Unless otherwise noted: V_{CC} = +3.3V \pm 5% or +5.0V \pm 5%, C1-C4 = 0.1 μ F; T_A = T_{MIN} to T_{MAX}. Typical values are at V_{CC} = 3.3V, T_A = +25°C.

SYMBOL	PARAMETERS	Min.	TYP.	Max.	UNITS	CONDITIONS
t _{ZH}	Receiver Enable to Output High		100	200	ns	Figures 13 and 14
t _{ZL}	Receiver Enable to Output Low		100	200	ns	Figures 13 and 15
t _{HZ}	Receiver Output High to Disable		100	200	ns	Figures 13 and 16
t _{LZ}	Receiver Output Low to Disable		100	200	ns	Figures 13 and 17
RS-485/RS	5-422 SHUTDOWN FEATURE APPLI	ES TO S	P337EU	ONLY		
t _{DZZV}	Shutdown to Driver Output Valid			30	μs	
t _{Dshutdw} n	Driver Time to Shutdow n		100		ns	
t _{RZZV}	Shutdown to Receiver Output Valid			30	μs	
t _{Rshutdw} n	Receiver Time to Shutdow n		100		ns	

FIGURE 2. RS-485 DRIVER DC TEST CIRCUIT

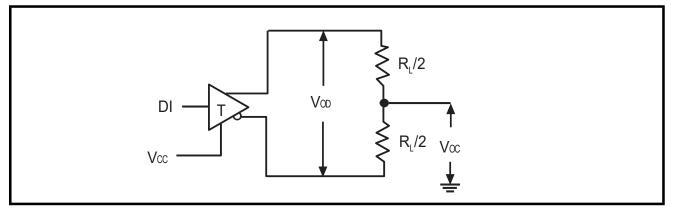


FIGURE 3. RS-485 DRIVER COMMON MODE LOAD TEST

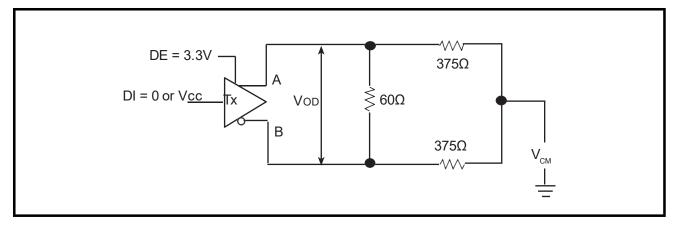




FIGURE 4. RS-485 DRIVER OUTPUT SHORT CIRCUIT TEST

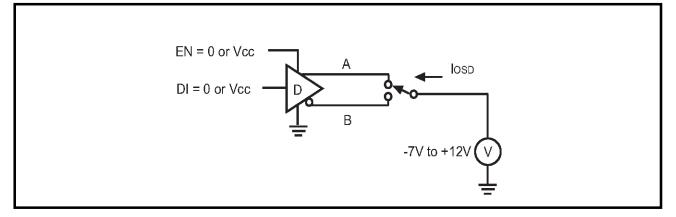


FIGURE 5. RS-485 DRIVER PROPAGATION DELAY TEST CIRCUIT

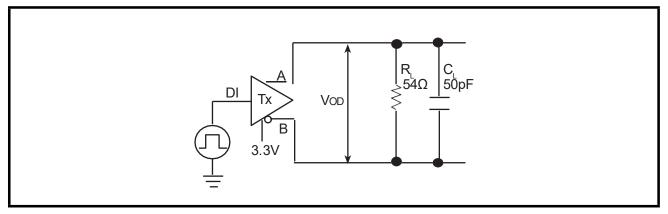


FIGURE 6. RS-485 DRIVER TIMING DIAGRAM

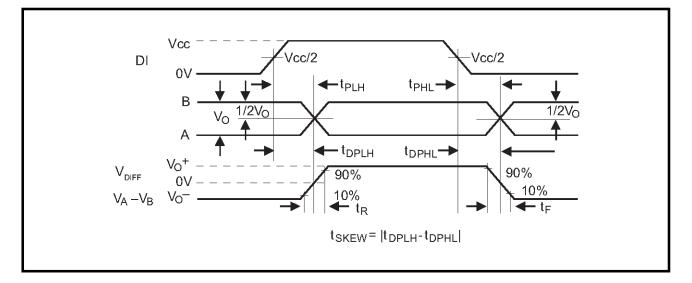




FIGURE 7. RS-485 DRIVER ENABLE AND DISABLE TEST CIRCUI

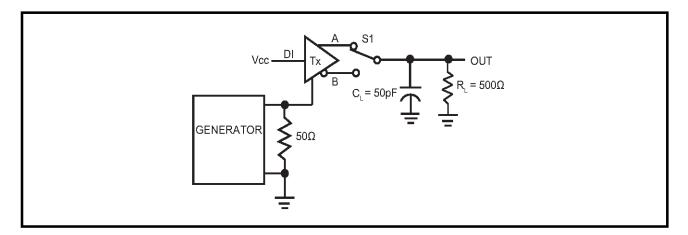


FIGURE 8. RS-485 DRIVER ENABLE AND DISABLE TIMING DIAGRAM

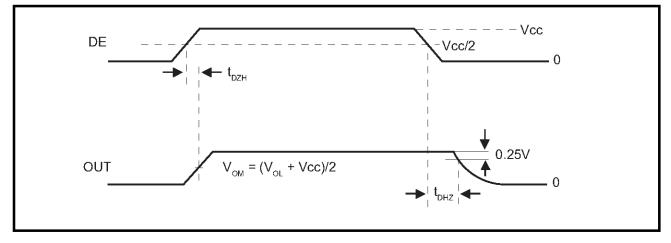


FIGURE 9. RS-485 DRIVER ENABLE AND DISABLE TEST CIRCUIT 2

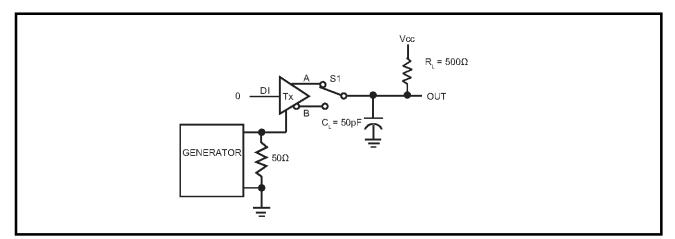




FIGURE 10. RS-485 DRIVER ENABLE AND DISABLE TIMING DIAGRAM 2

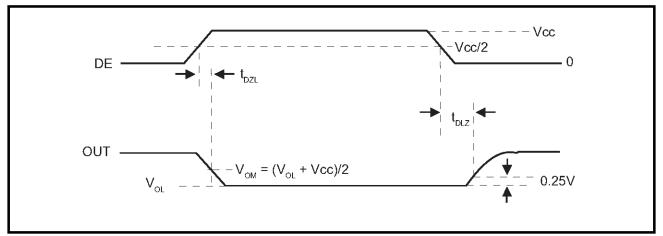


FIGURE 11. RS-485 RECEIVER PROPAGATION DELAY TEST CIRCUIT

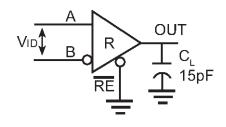


FIGURE 12. RS-485 RECEIVER PROPAGATION DELAY TIMING DIAGRAM

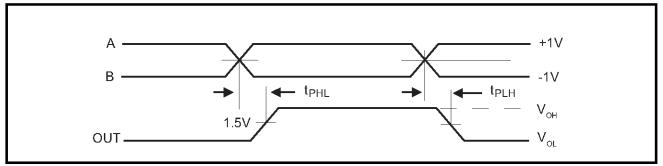




FIGURE 13. RS-485 RECEIVER ENABLE AND DISABLE TIMES TEST CIRCUIT

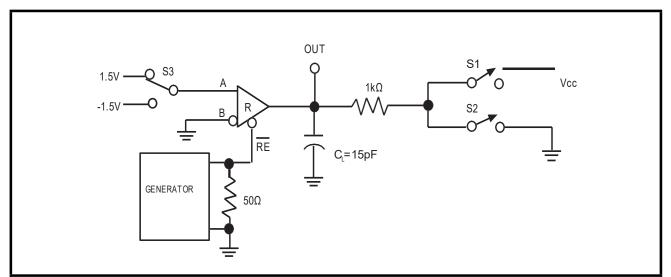


FIGURE 14. RS-485 RECEIVER ENABLE AND DISABLE TIMES TIMING DIAGRAM 1

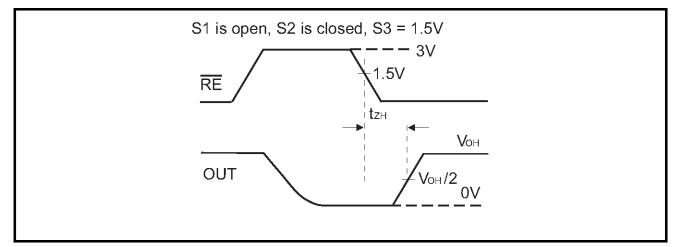


FIGURE 15. RS-485 RECEIVER ENABLE AND DISABLE TIMES TIMING DIAGRAM 2

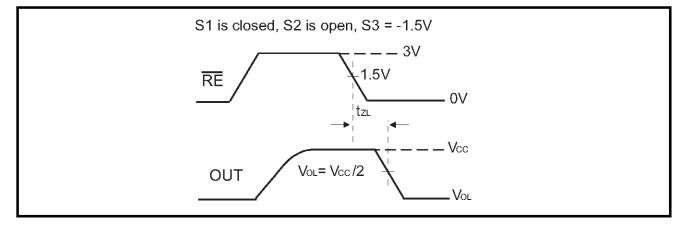




FIGURE 16. RS-485 RECEIVER ENABLE AND DISABLE TIMES TIMING DIAGRAM 3

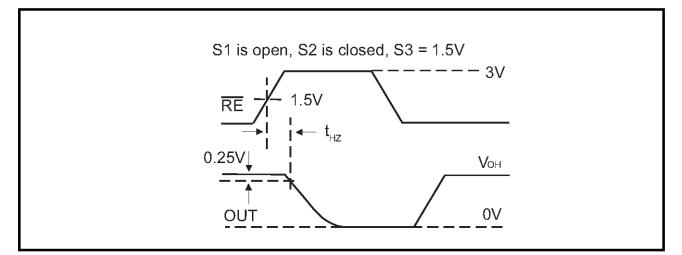


FIGURE 17. RS-485 RECEIVER ENABLE AND DISABLE TIMES TIMING DIAGRAM 4

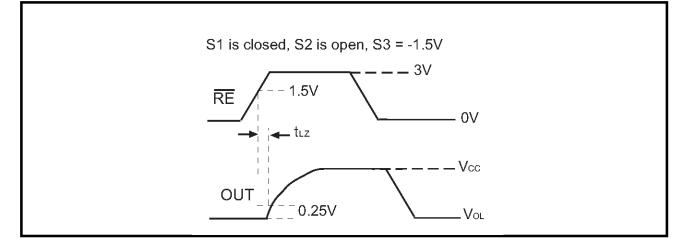
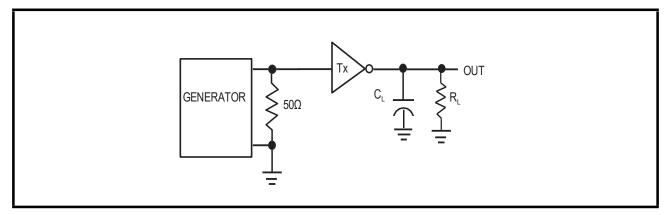


FIGURE 18. RS-232 DRIVER OUTPUT SLEW RATE TEST CIRCUIT







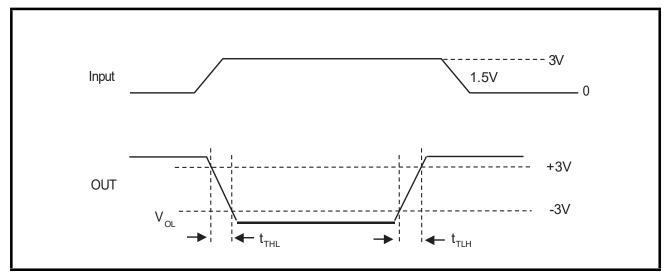


FIGURE 20. RS-232 RECEIVER PROPAGATION DELAY TESTCIRCUIT

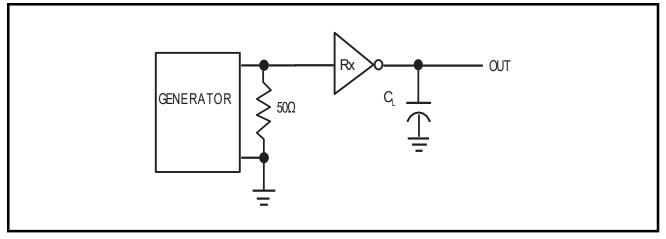
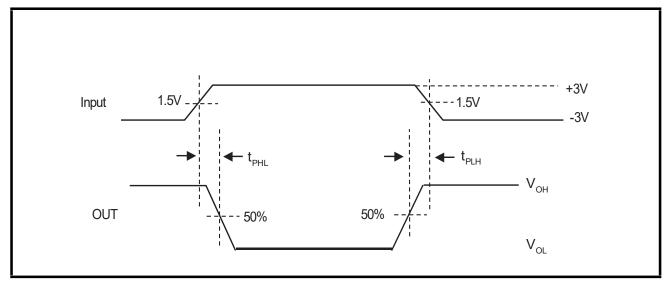


FIGURE 21. RS-232 RECEIVER PROPAGATION DELAY TIMING DIAGRAM





SP337E Mode Configuration Tables

RS232/RS485	TXEN	RXEN	Operation		Charge Pump	Driver and Receiver
Low	Ignored	Low	RS-232	3T/5R	ON	Receivers Enabled
Low	lgnored	High	RS-232	3T/5R	ON	Receivers Disabled (High-Z Output)
High	Low	Low	RS-485/422 Full-Duplex	2T/2R	ON	Drivers Disabled (High-Z Output); Receivers Enabled
High	High	High	RS-485/422 Full-Duplex	2T/2R	ON	Drivers Enabled; Receivers Disabled (High-Z Output)
High	Low	High	RS-485/422 Full-Duplex	2T/2R	ON	Drivers Disabled (High Z output); Receivers Disabled (High Z output)
High	High	Low	RS-485/422 Full-Duplex	2T/2R	ON	Drivers Enabled; Receivers Enabled

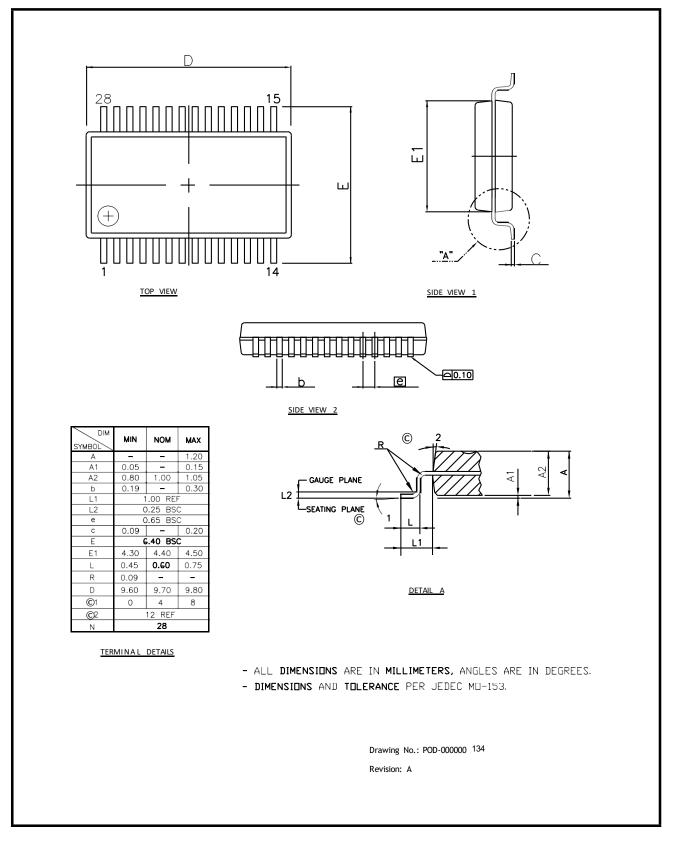
TABLE 1: SP337EB

TABLE 2: SP337EU

RS232/RS485	TXEN	RXEN	Operat	Operation		Driver and Receiver
Low	Ignored	Low	RS-232	3T/5R	ON	Receivers Enabled
Low	lgnored	High	RS-232	3T/5R	ON	Receivers Disabled (High-Z Output)
High	Low	Low	RS-485/422 Full-Duplex	2T/2R	ON	Drivers Disabled (High-Z Output); Receivers Enabled
High	High	High	RS-485/422 Full-Duplex	2T/2R	ON	Drivers Enabled; Receivers Disabled (High-Z Output)
High	Low	High	RS-485/422 Full-Duplex	2T/2R	OFF (Shutdown)	Drivers Disabled (High Z output); Receivers Disabled (High Z output)
High	High	Low	RS-485/422 Full-Duplex	2T/2R	ON	Drivers Enabled; Receivers Enabled

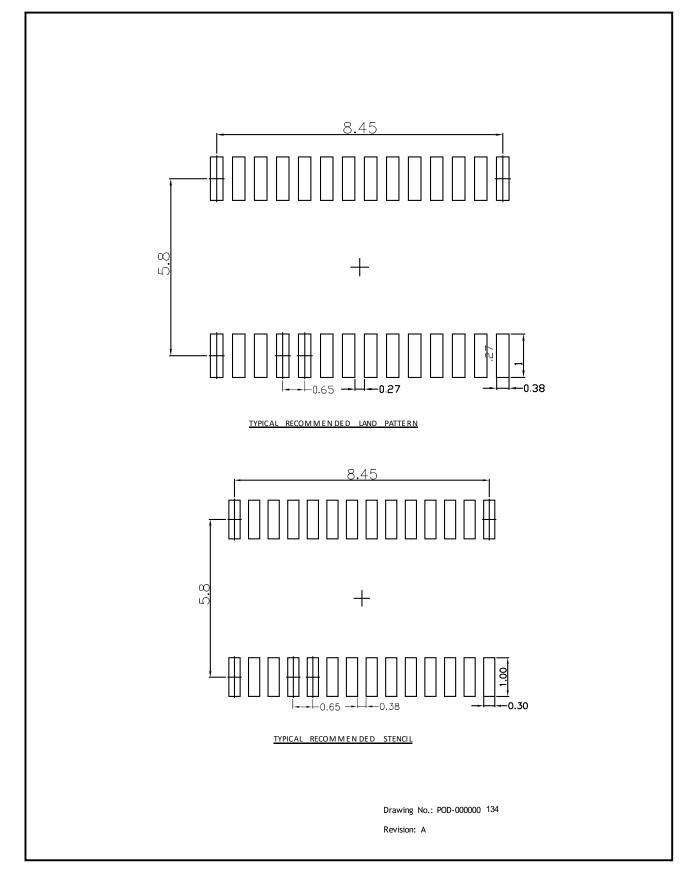














REVISION HISTORY

DATE	REVISION	DESCRIPTION
December 2010	1.0.0	Production Release.
December 2010	1.0.1	Update ESD Information.
March 2011	1.0.2	Correct Figure 1 RS-485 driver type error.
March 2018	1.0.3	Clarify test conditions for Driver Output Leakage Current on page 7. Corrected pow er off impedance unit. Update to MaxLinear logo. Update format and Ordering Information. Moved ESD ratings / protection to Absolute Maximum Ratings section.
July 5, 2021	2.0.0	Add missing units for RS-232 driver propagation delays and ESD protection ratings for IEC61000-4-2. Update SP337EB 250kbps conditions, and RS-485 / RS-422 shutdow n to driver / receiver output valid timing according to the changes outlined in PCN 20006. Update ordering information and remove obsolete WSOIC version references.



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