Interface transceiver of RS-232 standard with one supply voltage

IC ILX232 is purposed for application in high-performance information processing systems and control devices of wide application.

MOS levels.

Output voltage levels are compatible with input levels
of K-MOS, N-MOS and TTL integrated circuits
Supply voltage : 5V
Low input current: 1.0 ; 0.1 at = 25
Output current 24 mA
Latching current not less than 450 mA at = 25
Enhanced ESD Specifications:
15kV IEC61000-4-2 Air Discharge
8kV IEC61000-4-2 Contact Discharge

IC marking in package

Truth table

Inputs	Outputs
R_{IN}, T_{IN}	R_{OVT}, T_{OVT}
H	L
L	H

. T

Recommended Operating Conditions

Symbol	Parameter	Rate		Unit
		min	max	
V_{CC}	Supply voltage	4.5	5.5	V
V+	Transmitter output high voltage	5.0	-	
V-	Transmitter output low voltage	-5.0	-	

Static parameters

Symbol	Parameter	Test conditions	Rate				Unit
			25 C		-40 C to 85 C		
			min	max	min	max	
I_{CC}	Consumption current static	V_{CC} =5.0 V V_{IL} = 0 V	-	10.0	-	14.0	mA
Receiver electrical parameters							
V_h	Hysteresis voltage	V_{CC} =5.0 V	0.2	0.9	0.2	1.0	V
V_{On}	On (operation) voltage	V_O 0.1 V I_{OL} 20 uA	-	2.4	-	2.3	
V_{off}	Off (dropout) voltage	V_O V_{CC} -0.1 V I_{OH} -20 uA	0.8	-	0.9	-	
V_{OL}	Output low voltage	I_{OL} = 3.2 m V = 4.5 V V_{IH} = 2.4 V	-	0.3	-	0.4	
V_{OH}	Output high voltage	I_{OH} = -1.0 mA V = 4.5 V V_{IL} = 0.8 V	3.6	-			

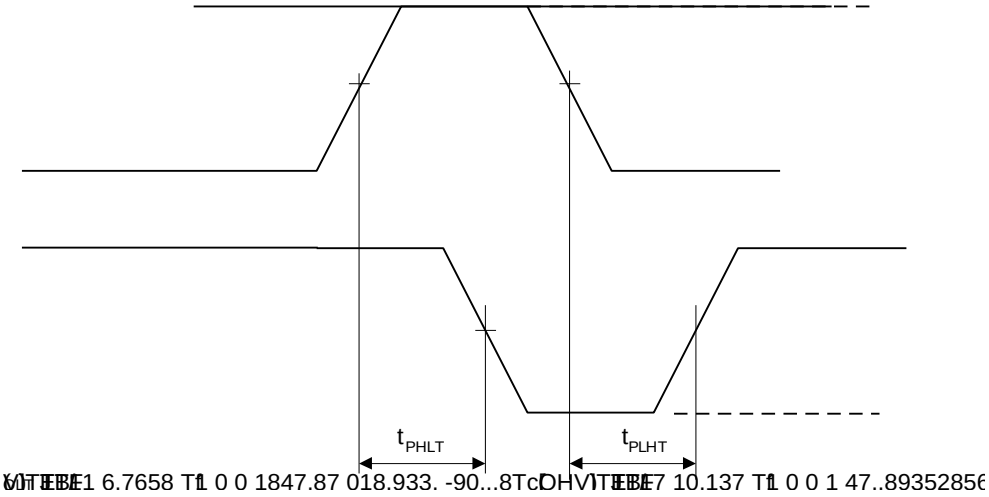

Figure 4

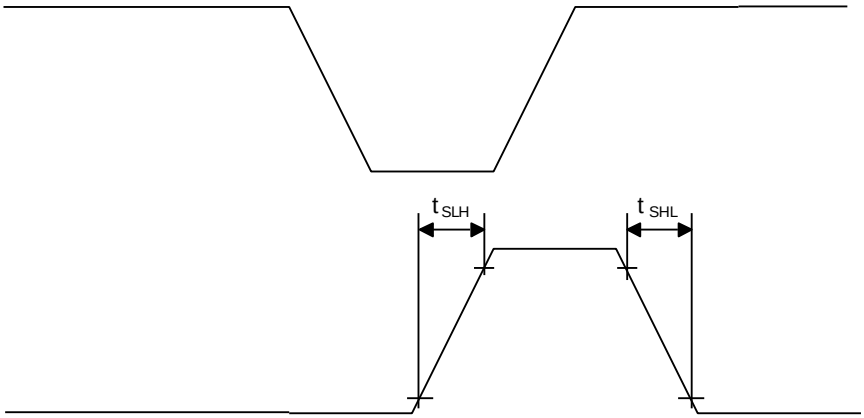

Figure 5

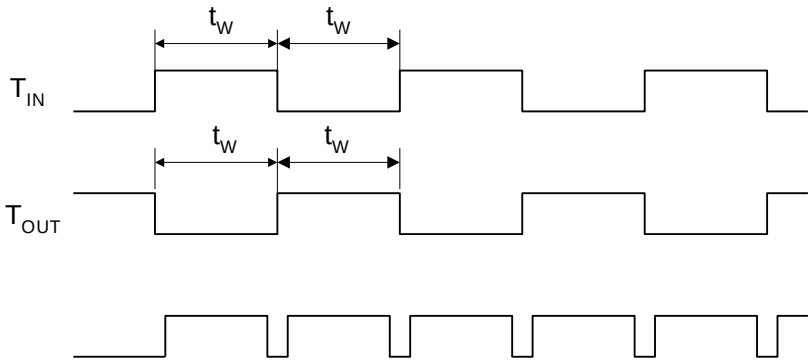

Figure 6