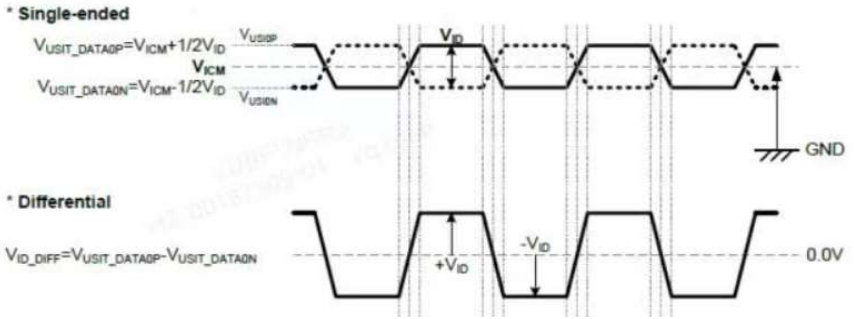
DC Characteristics

Symbol	Description	Min.	Typ.	Max	Unit
VIH	Input high threshold	0.8VDD			V
VIL	Input low threshold			0.2VDD	V
IOH	Output high current	8			mA
IOL	Output low current			-8	mA
$\|V_{OD}\|$	Differential output voltage	100		600	mV
Vcm	Common Voltage	0.3		0.7	V
De-Emphasis	De-Emphasis	0		200	%

3.2 USI-T Characteristic

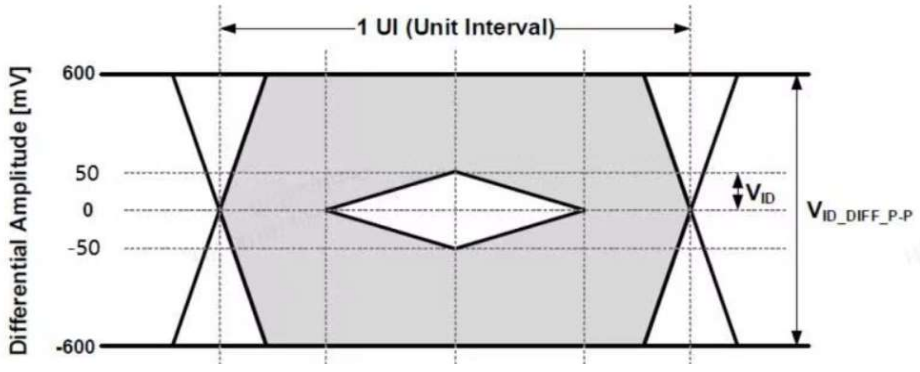
Parameter	Symbol	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Input offset voltage	V_{ICM}	VDD1A = 1.62 V to 1.98 V With a Driver IC	0.3	0.45	0.6	V	-
Differential input data voltage	V_{ID}		50	-	600	mV	-
Differential input data peak-to-peak voltage	$V_{ID\_DIFF\_P\text{-}P}$		100	-	1200	mV	-
Internal termination resistor	R_T	Tc(5)	Typ-20%	100	Typ+20%	Ω	-

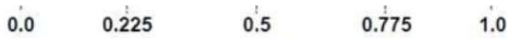
(1) VICM voltage is the common mode voltage of the differential input data.
(2) The min/max level of VID includes all the AC fluctuation upon DC level.
(3) The min level of VID means internal min value of USI-T data and the max level of VID means external max value of the USI-T data in eye diagram, respectively.
(4) The conditions of measurement for eye diagram are to bond a Driver IC on the source PCB (Figure 3.3).
(5) RT is an internal termination resistor (On-Die Termination). Condition is Tc,typ (52.5°C).



3.3 USI-T Eye Diagram

Fig. 3.1 Eye Diagram(3.24Gbps @ VID=50mV)




0.0
0.225
0.5
0.775
1.0