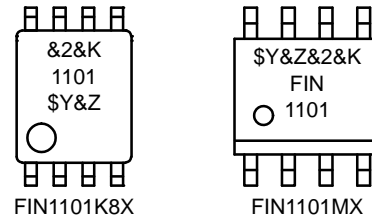


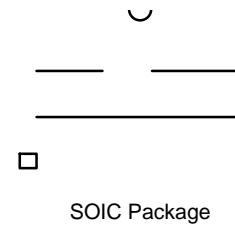
US8
CASE 846AN

MARKING DIAGRAM



\$Y = Logo
&Z = Assembly Plant Code
&2 = 2-Digit Date Code
&K = 2-Digits Lot Run Traceability Code
1101, FIN1101 = Specific Device Code

CONNECTION DIAGRAMS



R_{IN-}	Inverting LVDS Inputs
D_{OUT+}	Non-Inverting Driver Outputs
D_{OUT-}	Inverting Driver Outputs
EN	Driver Enable Pin
V_{CC}	Power Supply
GND	Ground

FUNCTION TABLE

Inputs		Outputs		
EN	R _{IN+}	R _{IN-}	D _{OUT+}	D _{OUT-}
H	H	L	H	L
H	L	H	L	H
H	Fail Safe Case		H	L
L	X	X	Z	Z

H = HIGH Logic Level L = LOW Logic Level
X = Don't Care Z = High Impedance

ORDERING INFORMATION

See detailed ordering and shipping information on page 4 of this data sheet.

FIN1101

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Rating
V_{CC}	Supply Voltage	-0.5 V to +4.6 V
V_{IN}	LVDS DC Input Voltage	-0.5 V to +4.6 V

V_{OUT}

FIN1101

AC ELECTRICAL CHARACTERISTICS (Over supply voltage and operating temperature ranges, unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ (Note 2)	Max	Unit
t _{PLHD}	Differential Propagation Delay LOW-to-HIGH	R _L = 100 Ω, C _L = 5 pF, V _{ID} = 200 mV to 450 mV, V _{IC} = V _{ID} / 2 to (V _{CC} - (V _{ID} / 2)), Duty Cycle = 50%, See Figure 3 and Figure 4	0.75	1.1	1.75	ns
t _{PHLD}	Differential Propagation Delay HIGH-to-LOW		0.75	1.1	1.75	ns
t _{TLHD}	Differential Output Rise Time (20% to 80%)		0.29	0.40	0.58	ns
t _{THLD}	Differential Output Fall Time (80% to 20%)		0.29	0.40	0.58	ns
t _{SK(P)}	Pulse Skew t _{PLH} - t _{PHL}		-	0.01	0.2	ns
t _{SK(PP)}	Part-to-Part Skew (Note 3)		-	-	0.5	ns
f _{MAX}	Maximum Frequency (Note 4) (Note 5)		400	800	-	MHz
t _{PZHD}	Differential Output Enable Time from Z to HIGH	R _L = 100 Ω, C _L = 5 pF, See Figure 2 and Figure 3	-	2.1	5	ns
t _{PZLD}	Differential Output Enable Time from Z to LOW		-	2.3	5	ns
t _{PHZD}						

FIN1101

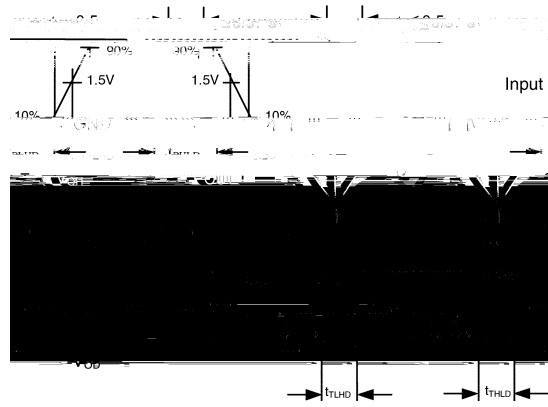
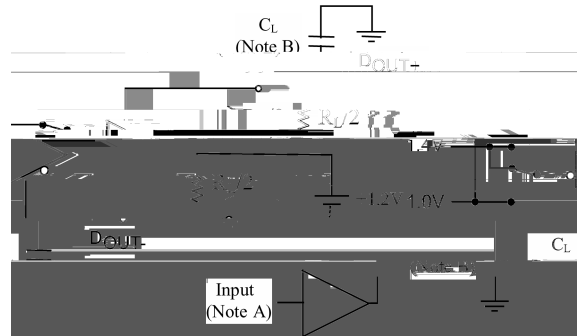


Figure 4. AC Waveforms



Note A: All LVTTTL input pulses have frequency = 10 MHz, t_R or $t_F \leq 2$ ns
 Note B: C_L includes all probe and test fixture capacitances

Figure 5. Differential Driver Enable and Disable Test Circuit

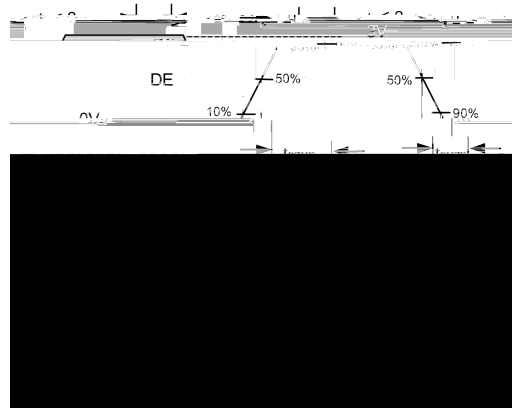


Figure 6. Enable and Disable AC Waveforms

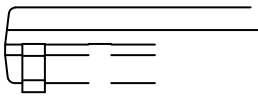
ORDERING INFORMATION

Order Number	Package Number	Package Description	Shipping†
FIN1101MX			

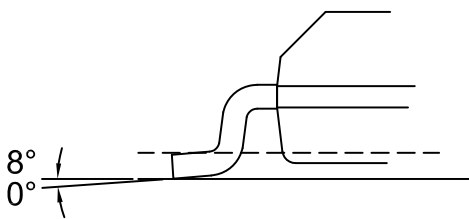
SOIC8
CASE 751EB
ISSUE A

DATE 24 AUG 2017

SEE DE



7



US8

13M|A|B|S|J

onsemi, **onsemi**, and other names, marks, and brands are registered and/or common law trademarks of Semiconductor Components Industries, LLC dba "**onsemi**" or its affiliates and/or subsidiaries in the United States and/or other countries. **onsemi** owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of **onsemi**'s product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. **onsemi** reserves the right to make changes at any time to any products or information herein, without notice. The information herein is provided "as-is" and **onsemi** makes no warranty, representation or guarantee regarding the accuracy of the information, product features, availability, functionality, or suitability of its products for any particular purpose, nor does **onsemi** assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using **onsemi**
