2.5 V 1:5 Dual Differential LVDS Compatible Clock Driver

MC100EP210S

Description

The MC100EP210S is a low skew 1

Table 2. ATTRIBUTES

Charact	Value			
ESD Protection	Human Body Model Machine Model Charged Device Model	> 2 kV > 100 V > 2 kV		
Moisture Sensitivity, Indefinite Til	Pb Pkg	Pb-Free Pkg		
	LQFP-32 QFN-32	Level 2	Level 2 Level 1	
Flammability Rating	Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in		
Transistor Count	461 Devices			
Meets or exceeds JEDEC Spec EIA/JESD78 IC Latchup Test				

1. For additional information, refer to Application Note <u>AND8003/D</u>.

Table 3. MAXIMUM RATINGS

Symbol

Parameter

MC100EP210S

		40°C		25°C		85°C					
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current		150	200		150	200		150	200	mA
V _{OH}	Output HIGH Voltage (Note 3)	1250	1400	1550	1250	1400	1550	1250	1400	1550	mV
V _{OL}	Output LOW Voltage (Note 3)	800	950	1100	800	950	1100	800	-	-	

Table 4. DC CHARACTERISTICS V_{CC} = 2.5 V, V_{EE} = 0 V (Note 2)

MC100EP210S

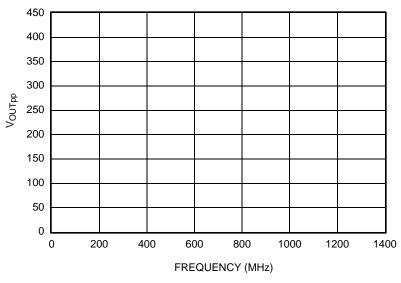


Figure 2. F_{max}

MC100EP210S

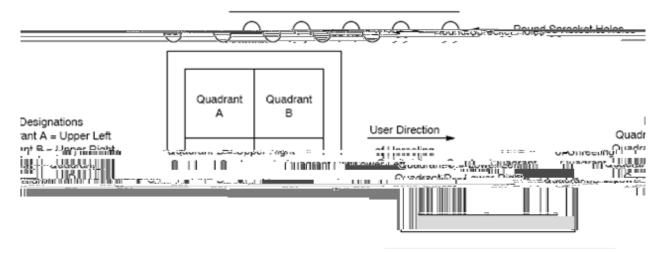
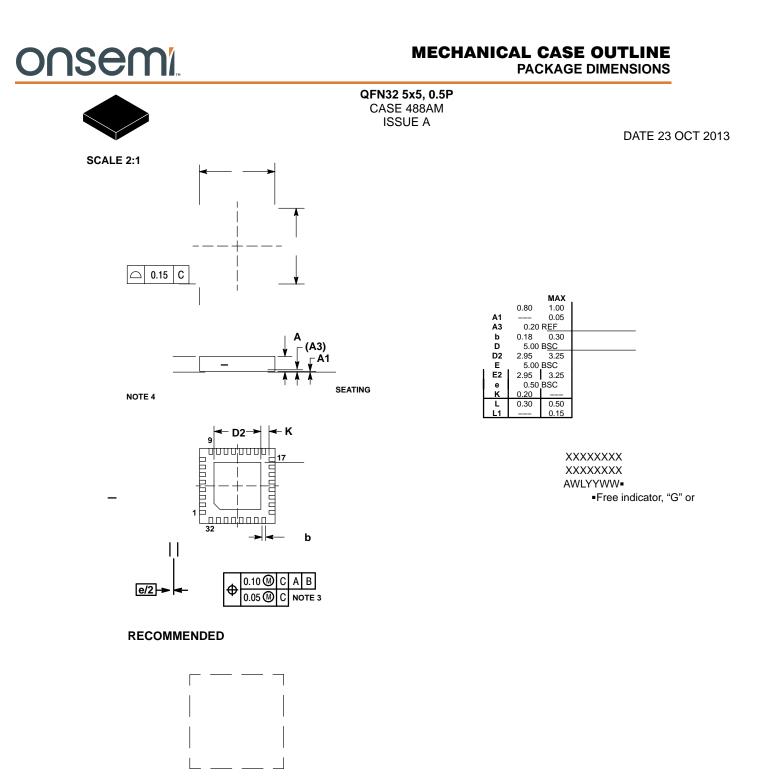


Figure 4. Tape and Reel Pin 1 Quadrant Orientation

ORDERING INFORMATION

Device	Package	Shipping [†] 250 Units / Tray		
MC100EP210SFAG	LQFP-32 (Pb-Free)			
MC100EP210SFAR2G	LQFP-32 (Pb-Free)	2000 / Tape & Reel (Pin 1 Orientation in Quadrant B, Figure 4)		
MC100EP210SMNG	QFN-32 (Pb-Free)	72 Units / Tray		
MC100EP210SMNR4G	QFN-32 (Pb-Free)	1000 / Tape & Reel		

+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, <u>BRD8011/D</u>.



| | PITCH

DIMENSION: MILLIMETERS

DOCUMENT NUMBER:	98AON20032D	

LQFP-32, 7x7 CASE 561AB ISSUE O

DATE 19 JUN 200

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 incruit, 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