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Final Product/Process Change Notification Document #:FPCN24718X Issue Date:05 May 2022

Title of Change:	MC100EP140 Datasheet Update						
Proposed First Ship date:	12 Aug 2022 or earlier if approved by customer						
Contact Information:	Contact your local onsemi Sales Office or Eric.Rupnow@onsemi.com						
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.						
Additional Reliability Data:	Contact your local onsemi Sales Office or Joe.Chapple@onsemi.com						
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com						
Marking of Parts/ Traceability of Change:	No Marking Changes						
Change Category:	Technical Documenation						
Change Sub-Category(s):	Datasheet/Product Doc change						
Sites Affected:							
onsemi Sites		External Foundry/Subcon Sites					
None		None					

Description and Purpose:

Update the MC100EP140 Datasheet VOL and VOH limits in the Tables 5 and 6 to match family VOL/VOH specification limits for Output Buffer Design that is used in the MC100EP140 product.

Old Tables

Table 5. 100EP DC CHARACTERISTICS, PECL V_{CC} = 3.3 V, V_{EE} = 0 V (Note 2)

		-40°C				25°C					
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
V _{OH}	Output HIGH Voltage (Note 3)	2155	2280	2405	2155	2280	2405	2155	2280	2405	mV
VOL	Output LOW Voltage (Note 3)	1755	1880	2005	1755	1880	2005	1755	1880	2005	mV

Table 6. 100EP DC CHARACTERISTICS, NECL V_{CC} = 0 V, V_{EE} = -3.6 V to -3.0 V (Note 4)

		−40°C				25°C					
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
V _{OH}	Output HIGH Voltage (Note 5)	-1145	-1020	-895	-1145	-1020	-895	-1145	-1020	-895	mV
V _{OL}	Output LOW Voltage (Note 5)	-1545	-1420	-1295	-1545	-1420	-1295	-1545	-1420	-1295	mV

New Tables

Table 5. 100EP DC CHARACTERISTICS, PECL V_{CC} = 3.3 V, V_{EE} = 0 V (Note 2)

		-40°C				25°C					
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Мах	Min	Тур	Max	Unit
V _{OH}	Output HIGH Voltage (Note 3)	2225	2350	2475	2275	2400	2525	2300	2425	2550	mV
V _{OL}	Output LOW Voltage (Note 3)	1775	1900	2025	1800	1925	2050	1825	1950	2075	mV



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			-40°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
V _{он}	Output HIGH Voltage (Note 5)	-1075	-950	-825	-1025	-900	-775	-1000	-875	-750	mV
V _{OL}	Output LOW Voltage (Note 5)	-1525	-1400	-1275	-1500	-1375	-1250	-1475	-1350	-1225	mV
ot applica	Characteristics Summary:										
st of Aff	ected Parts: the standard (off the shelf) part	t numbers				-		n parts o	affected	l by this	PCN are shown in the custon
	N addendum in the PCN email n	otification,	, or on t	ne <u>PCN</u>	Custon	nzeu PC	<u></u> .				
		otification,	. or on t	ne <u>PCN</u>	Custon		<u>n tun</u> .		Quali	fication	Vehicle
	N addendum in the PCN email n	-	, or on t	ne <u>PCN</u>	Custon		<u></u>		Quali	fication N/A	Vehicle



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC100EP140DG				