ON Semiconductor®

Product Bulletin

Document # : PB21742X
Issue Date: 6 June 2017

Title of Change:	Datasheet Adjustment for MC74VHC1G14 to correct Positive Threshold Voltage and Negative Threshold Voltage.
Effective date:	6 June 2017
Contact information:	Contact your local ON Semiconductor Sales Office or <Rich.Field@onsemi.com>
Type of notification:	ON Semiconductor will consider this change accepted.
Change category:	☐ Wafer Fab Change ☐ Assembly Change ☐ Test Change ☒ Other Datasheet

Change Sub-Category(s):

☐ Manufacturing Site Change/Addition
☐ Manufacturing Process Change
☐ Material Change
☒ Product specific change
☒ Datasheet/Product Doc change
☐ Shipping/Packaging/Marking
☐ Other: _____

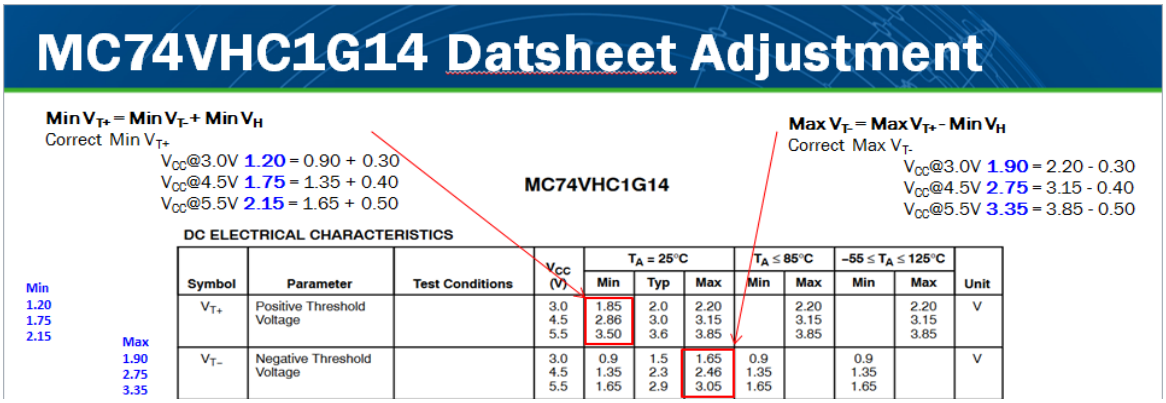
Sites Affected:

☐ All site(s) ☒ not applicable ☐ ON Semiconductor site(s) : ☐ External Foundry/Subcon site(s)

Description and Purpose:

The VT+ and VT- data points given in the datasheet are misleading and should be corrected.

The Min for V_{T+} and the Max for V_{T-} are calculated values and the values entered are incorrect.
Min V_{T+} = Min V_{T-} + Min V_H
Max V_{T-} = Max V_{T+} - Min V_H



Symbol	Parameter	Test Conditions	V_{CC} (V)	T_A = 25°C Min	Typ	Max	$T_A \le 85°C$ Min	Max	$-55 \le T_A \le 125°C$ Min	Max	Unit
V_{T+}	Positive Threshold Voltage		3.0	1.85	2.0	2.20		2.20		2.20	V
			4.5	2.86	3.0	3.15		3.15		3.15	
			5.5	3.50	3.6	3.85		3.85		3.85	
V_{T-}	Negative Threshold Voltage		3.0	0.9	1.5	1.65	0.9		0.9		V
			4.5	1.35	2.3	2.46	1.35		1.35		
			5.5	1.65	2.9	3.05	1.65		1.65		

The change will not impact form, fit, or function of product(s)"

List of affected Standard Parts:

MC74VHC1G14DFT1G
MC74VHC1G14DFT2G
MC74VHC1G14DTT1G
NLJVHC1G14DFT2G