ON Semiconductor®

Product Bulletin

Document # : PB21742Z
Issue Date: 9 June 2017

Title of Change:	Datasheet Adjustment for MC74VHC1G14 to correct Positive Threshold Voltage and Negative Threshold Voltage.
Effective date:	9 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: _____

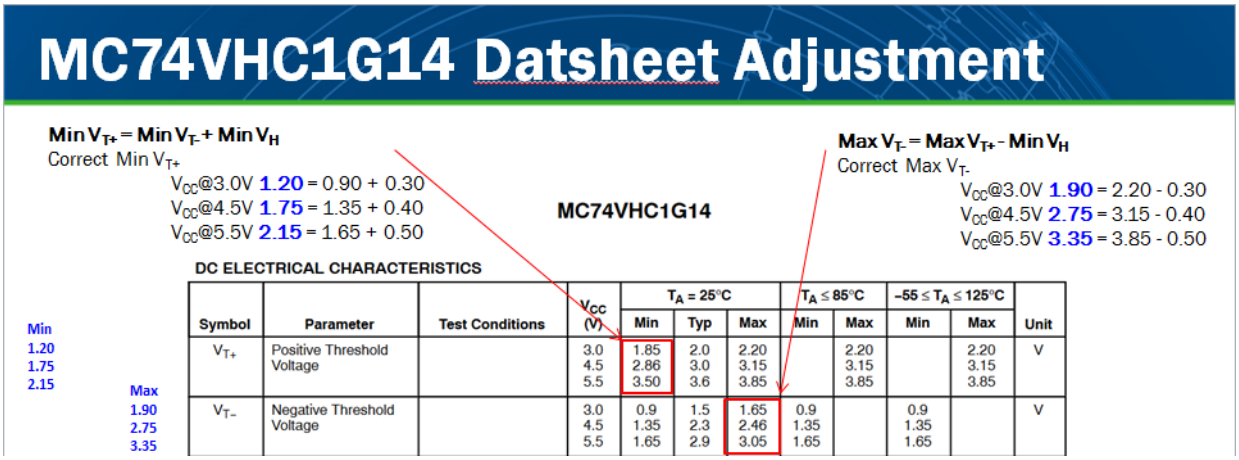
Sites Affected:

☐ 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 4.5 5.5	1.85 2.86 3.50	2.0 3.0 3.6	2.20 3.15 3.85		2.20 3.15 3.85		2.20 3.15 3.85	V
V_{T-}	Negative Threshold Voltage		3.0 4.5 5.5	0.9 1.35 1.65	1.5 2.3 2.9	1.65 2.46 3.05	0.9 1.35 1.65		0.9 1.35 1.65		V

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

List of affected Standard Parts:

NLVVHC1G14DFT1G
NLVVHC1G14DFT2G
NLVVHC1G14DTT1G