

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></rich.field@onsemi.com>
Type of notification:	ON Semiconductor will consider this change accepted.
Change category:	☐ Wafer Fab Change ☐ Assembly Change ☐ Test Change ☐ Other <u>Datasheet</u>
Change Sub-Category(s): Manufacturing Site Change Manufacturing Process Cha	
Sites Affected: ☐ All site(s) ☐ not a	pplicable 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}	
MC74VHC1G14 Datsheet Adjustment	
V _{CC} @	$\begin{array}{lll} \textbf{MinV}_{\textbf{H}} & \textbf{MaxV}_{\textbf{T}} = \textbf{MaxV}_{\textbf{T}} - \textbf{MinV}_{\textbf{H}} \\ \textbf{23.0V 1.20} = 0.90 + 0.30 \\ \textbf{24.5V 1.75} = 1.35 + 0.40 \\ \textbf{25.5V 2.15} = 1.65 + 0.50 \\ \textbf{CELECTRICAL CHARACTERISTICS} & \textbf{MC74VHC1G14} \\ \end{array}$
Min	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
1.20 1.75 2.15 Max	V _{T+} Positive Threshold Voltage 3.0 1.85 2.0 2.20 2.20 2.20 V 3.15 3.15 3.15 3.15 3.15 3.15 3.15 3.15
1.90 2.75 3.35	V _T _ Negative Threshold Voltage 3.0 0.9 1.5 1.65 0.9 0.9 V Voltage 4.5 1.35 2.3 2.46 1.35 1.35 5.5 1.65 0.9 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	

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