



Title of Change:	5 V MiniGate U04 Datasheet Changes
Effective date:	14 Jan 2021
Contact information:	Contact your local ON Semiconductor Sales Office or logic.fpcn@onsemi.com
Type of notification:	This Product Bulletin is for notification purposes only. ON Semiconductor will proceed with implementation of this change upon publication of this Product Bulletin.
Change Category:	data sheet
Change Sub-Category(s):	Datasheet/Product Doc change, Product specific change

Sites Affected:

ON Semiconductor Sites

None

External Foundry/Subcon Sites

None

Description and Purpose:

The change will not impact form, fit, or function of products.

MC74HC1GU04 – VOH/VOL

Existing Datasheet

VOH	High-Level Output Voltage	VIN = VIH or VIL IOH = -2 mA	2.0	1.8	2.0	-	1.8	-	1.8	-	V
			3.0	2.7	3.0	-	2.7	-	2.7	-	
			4.5	4.0	4.5	-	4.0	-	4.0	-	
VOL	Low-Level Output Voltage	VIN = VIH or VIL IOL = 20 µA	2.0	-	0.0	0.1	-	0.1	-	0.1	V
			3.0	-	0.0	0.1	-	0.1	-	0.1	-
			4.5	-	0.0	0.1	-	0.1	-	0.1	-
		VIN = VIH or VIL IOL = 2 mA	4.5	-	0.17	0.26	-	0.33	-	0.40	
			6.0	-	0.18	0.26	-	0.33	-	0.40	

New

VOH	High-Level Output Voltage	VIN = VIH or VIL IOH = -2 mA	2.0	1.8	2.0	-	1.8	-	1.8	-	V
			3.0	2.7	3.0	-	2.7	-	2.7	-	
			4.5	4.0	4.5	-	4.0	-	4.0	-	
VOL	Low-Level Output Voltage	VIN = VIH or VIL IOL = 20 µA	2.0	-	0.0	0.1	-	0.1	-	0.1	V
			3.0	-	0.0	0.1	-	0.1	-	0.1	-
			4.5	-	0.0	0.1	-	0.1	-	0.1	-
		VIN = VCC IOL = 2 mA	4.5	-	0.17	0.26	-	0.33	-	0.40	
			6.0	-	0.18	0.26	-	0.33	-	0.40	

NC7SU04 – Absolute Maximum Ratings

Existing Datasheet

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min	Max	Unit	
VCC	Supply Voltage	-0.5	6.5	V	
Iik	DC Input Diode Current	VIN ≤ -0.5 V	-	-20	mA
		VIN ≥ VCC + 0.5 V	-	+20	
VIN	DC Input Voltage	-0.5	VCC + 0.5	V	
Iok	DC Output Diode Current	VOUT < -0.5 V	-	-20	mA
		VOUT > VCC + 0.5 V	-	+20	
VOUT	DC Output Voltage	-0.5	VCC + 0.5	V	

New

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min	Max	Unit	
VCC	DC Supply Voltage	-0.5	+6.5	V	
Iik	DC Input Diode Current	VIN < 0 V	-	-20	mA
		VIN > VCC	-	+20	
VIN	DC Input Voltage	-0.5	VCC + 0.5	V	
Iok	DC Output Diode Current	VOUT < 0 V	-	-20	mA
		VOUT > VCC	-	+20	
VOUT	DC Output Voltage	-0.5	VCC + 0.5	V	



NL17SZU04 – Maximum Ratings , VOH/VOL and IOFF

Existing Datasheet

New

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit
V _{CC}	DC Supply Voltage	SC-88A (NLV) -0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88A (NLV) -0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage	-0.5 to V _{CC} + 0.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND -50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < GND -50	mA
I _{OUT}	DC Output Source/Sink Current	±50	mA

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit
V _{CC}	DC Supply Voltage	SC-88A (NLV) -0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88A (NLV) -0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage	-0.5 to V _{CC} + 0.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND -50	mA
I _{OK}	DC Output Diode Current	±50	mA
I _{OUT}	DC Output Source/Sink Current	±50	mA

V _{OH}	High-Level Output Voltage	V _{IN} = V _{OH} or V _L I _{OH} = -100 µA I _{OH} = -4 mA I _{OH} = -8 mA I _{OH} = -12 mA I _{OH} = -16 mA I _{OH} = -24 mA I _{OH} = -32 mA	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	V _{CC} 1.4 2.1 2.4 2.7 2.5 4.0	-	V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	-	V
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{OH} or V _L I _{OL} = 100 µA I _{OL} = 4 mA I _{OL} = 8 mA I _{OL} = 12 mA I _{OL} = 16 mA I _{OL} = 24 mA I _{OL} = 32 mA	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	-	0.1 0.08 0.2 0.22 0.28 0.38 0.42	0.1 0.24 0.3 0.4 0.4 0.55 0.55	-	0.1 0.24 0.3 0.4 0.4 0.55 0.55	V
I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	±0.1	-	±1.0	µA	
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	1.0	-	10	µA	

V _{OH}	High-Level Output Voltage	V _{IN} = GND I _{OH} = -100 µA I _{OH} = -4 mA I _{OH} = -8 mA I _{OH} = -12 mA I _{OH} = -16 mA I _{OH} = -24 mA I _{OH} = -32 mA	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	V _{CC} 1.4 2.1 2.4 2.7 2.5 4.0	-	V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	-	V
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{CC} I _{OL} = 100 µA I _{OL} = 4 mA I _{OL} = 8 mA I _{OL} = 12 mA I _{OL} = 16 mA I _{OL} = 24 mA I _{OL} = 32 mA	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	-	0.1 0.08 0.2 0.22 0.28 0.38 0.42	0.1 0.24 0.3 0.4 0.4 0.55 0.55	-	0.1 0.24 0.3 0.4 0.4 0.55 0.55	V
I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	±0.1	-	±1.0	µA	
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V	0	-	1.0	-	10	µA	

NL27WZU04 – Maximum Ratings , VOH/VOL and IOFF

Existing Datasheet

New

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit
V _{CC}	DC Supply Voltage	SC-88A (NLV) -0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88A (NLV) -0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage	-0.5 to V _{CC} + 0.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND -50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < GND -50	mA
I _{OUT}	DC Output Source/Sink Current	±50	mA

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit
V _{CC}	DC Supply Voltage	SC-88A (NLV) -0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88A (NLV) -0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage	-0.5 to V _{CC} + 0.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND -50	mA
I _{OK}	DC Output Diode Current	±50	mA
I _{OUT}	DC Output Source/Sink Current	±50	mA

V _{OH}	High-Level Output Voltage	V _{IN} = V _{OH} or V _L I _{OH} = -100 µA I _{OH} = -4 mA I _{OH} = -8 mA I _{OH} = -12 mA I _{OH} = -16 mA I _{OH} = -24 mA I _{OH} = -32 mA	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	V _{CC} 1.4 2.1 2.4 2.7 2.5 4.0	-	V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	-	V
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{OH} or V _L I _{OL} = 100 µA I _{OL} = 4 mA I _{OL} = 8 mA I _{OL} = 12 mA I _{OL} = 16 mA I _{OL} = 24 mA I _{OL} = 32 mA	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	-	0.1 0.08 0.2 0.22 0.28 0.38 0.42	0.1 0.24 0.3 0.4 0.4 0.55 0.55	-	0.1 0.24 0.3 0.4 0.4 0.55 0.55	V
I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	±0.1	-	±1.0	µA	
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	1.0	-	10	µA	

V _{OH}	High-Level Output Voltage	V _{IN} = GND I _{OH} = -100 µA I _{OH} = -4 mA I _{OH} = -8 mA I _{OH} = -12 mA I _{OH} = -16 mA I _{OH} = -24 mA I _{OH} = -32 mA	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	V _{CC} 1.4 2.1 2.4 2.7 2.5 4.0	-	V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	-	V
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{CC} I _{OL} = 100 µA I _{OL} = 4 mA I _{OL} = 8 mA I _{OL} = 12 mA I _{OL} = 16 mA I _{OL} = 24 mA I _{OL} = 32 mA	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	-	0.1 0.08 0.2 0.22 0.28 0.38 0.42	0.1 0.24 0.3 0.4 0.4 0.55 0.55	-	0.1 0.24 0.3 0.4 0.4 0.55 0.55	V
I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	±0.1	-	±1.0	µA	
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V	0	-	1.0	-	10	µA	



NC7SZU04 – Absolute Maximum Ratings and VOH/VOL

Existing Datasheet

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min	Max	Unit
V _{CC}	Supply Voltage	-0.5	6.0	V
V _{IN}	DC Input Voltage	-0.5	6.0	V
V _{OUT}	DC Output Voltage	-0.5	6.0	V
I _{IK}	DC Input Diode Current	V _{IN} < -0.5 V	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < -0.5 V	-50	mA
I _{OUT}	DC Output Current	V _{OUT} > 0.5 V, V _{CC} = GND	+20	mA

V _{OH}	HIGH Level Output Voltage	V _{IN} = V _{IL} , I _{OH} = -100 μA	1.65	1.85	2.10	2.30	3.00	4.50				
			1.65	1.80	2.10	2.30	3.00	4.50	1.55	1.65	1.80	2.10
V _{OL}	LOW Level Output Voltage	V _{IN} = V _{IH} , I _{OL} = 100 μA	1.65	1.85	2.10	2.30	3.00	4.50				
			1.65	1.80	2.10	2.30	3.00	4.50	0.00	0.10	0.20	0.30

New

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min	Max	Unit
V _{CC}	Supply Voltage	-0.5	6.5	V
V _{IN}	DC Input Voltage	-0.5	6.5	V
V _{OUT}	DC Output Voltage	-0.5	6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < 0 V	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < 0 V	-50	mA
I _{OUT}	DC Output Current	V _{OUT} > V _{CC}	+50	mA

V _{OH}	High-Level Output Voltage	V _{IN} = GND I _{OH} = -100 μA	1.65 to 5.5	V _{CC} - 0.1	V _{CC}	V _{CC} - 0.1	V _{CC}				
			1.65	1.85	2.3	2.7	3.0	4.5	1.29	1.4	2.1
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{CC} I _{OL} = 100 μA	1.65 to 5.5	0.08	0.24	0.1	0.24				
			1.65	1.85	2.3	2.7	3.0	4.5	0.08	0.24	0.1

NC7WZU04 – Absolute Maximum Ratings and VOH/VOL

Existing Datasheet

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min	Max	Unit
V _{CC}	Supply Voltage	-0.5	6.5	V
V _{IN}	DC Input Voltage	-0.5	6.5	V
V _{OUT}	DC Output Voltage	-0.5	6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < -0.5 V	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < -0.5 V	-50	mA
I _{OUT}	DC Output Current	V _{OUT} > 0.5 V, V _{CC} = GND	+50	mA

V _{OH}	HIGH Level Output Voltage	V _{IN} = V _{IL} , I _{OH} = -100 μA	1.65	1.85	2.10	2.30	3.00	4.50				
			1.65	1.80	2.10	2.30	3.00	4.50	1.55	1.65	1.80	2.10
V _{OL}	LOW Level Output Voltage	V _{IN} = V _{IH} , I _{OL} = 100 μA	1.65	1.85	2.10	2.30	3.00	4.50				
			1.65	1.80	2.10	2.30	3.00	4.50	0.01	0.2	0.2	0.3

New

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min	Max	Unit
V _{CC}	Supply Voltage	-0.5	6.5	V
V _{IN}	DC Input Voltage	-0.5	6.5	V
V _{OUT}	DC Output Voltage	-0.5	6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < 0 V	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < 0 V	-50	mA
I _{OUT}	DC Output Current	V _{OUT} > V _{CC}	+50	mA

V _{OH}	High-Level Output Voltage	V _{IN} = GND I _{OH} = -100 μA	1.65 to 5.5	V _{CC} - 0.1	V _{CC}	V _{CC} - 0.1	V _{CC}				
			1.65	1.85	2.3	2.7	3.0	4.5	1.29	1.4	2.1
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{CC} I _{OL} = 100 μA	1.65 to 5.5	0.08	0.24	0.1	0.24				
			1.65	1.85	2.3	2.7	3.0	4.5	0.08	0.24	0.1



MC74VHC1GU04 – VOH/VOL

Existing Datasheet

VOH	Minimum High-Level Output Voltage VIN = VIH or VIL	VIH = VIH or VIL IOH = -50 µA	2.0 3.0 4.5	1.9 2.9 4.4	2.0 3.0 4.5	1.9 2.9 4.4	1.9 2.9 4.4	V
		VIH = VIH or VIL IOH = -4 mA IOH = -8 mA	3.0 4.5	2.58 3.94	2.48 3.80	2.34 3.66	V	
VOL	Maximum Low-Level Output Voltage VIN = VIH or VIL	VIH = VIH or VIL IOL = 50 µA	2.0 3.0 4.5	0.0 0.0 0.0	0.1 0.1 0.1	0.1 0.1 0.1	0.1 0.1 0.1	V
		VIH = VIH or VIL IOL = 4 mA IOL = 8 mA	3.0 4.5	0.36 0.36	0.44 0.44	0.52 0.52	V	

New

VOH	Minimum High-Level Output Voltage VIN = VIH or VIL	VIH = VIH or VIL IOH = -50 µA	2.0 3.0 4.5	1.9 2.9 4.4	2.0 3.0 4.5	1.9 2.9 4.4	1.9 2.9 4.4	V
		VIH = GND IOH = -4 mA IOH = -8 mA	3.0 4.5	2.58 3.94	2.48 3.80	2.34 3.66	V	
VOL	Maximum Low-Level Output Voltage VIN = VIH or VIL	VIH = VIH or VIL IOL = 50 µA	2.0 3.0 4.5	0.0 0.0 0.0	0.1 0.1 0.1	0.1 0.1 0.1	0.1 0.1 0.1	V
		VIH = VCC IOL = 4 mA IOL = 8 mA	3.0 4.5	0.36 0.36	0.44 0.44	0.52 0.52	V	

List of Affected Standard Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

NL17SZU04DFT2G	M74VHC1GU04DFT2G	M74VHC1GU04DFT1G
MC74HC1GU04DFT1G	MC74HC1GU04DFT2G	MC74VHC1GU04DF1G
NC7SZU04P5X	NC7SU04P5X	MC74VHC1GU04DBVT1G
MC74HC1GU04DBVT1G	NL17SZU04DBVT1G	NC7SZU04M5X
NC7SU04M5X	MC74VHC1GU04MU1TCG	MC74VHC1GU04MU3TCG
MC74VHC1GU04MU2TCG	NL17SZU04XV5T2G	NL17SZU04P5T5G
NL27WZU04DBVT1G	NL27WZU04DFT2G	NC7WZU04P6X
NC7SU04L6X	NC7WZU04L6X	NC7SZU04L6X
NC7SZU04FHX		

Japanese translation of the notification starts here.
通知の日本語訳はここから始まります。

Note: The Japanese version is for reference only. In case of any differences between the English and Japanese version, the English version shall control.

注：日本語版は参照用です。英語版と日本語版の違いがある場合は、英語版が優先されます。



変更件名:	5 V MiniGate U04 データシート変更	
発効日:	14 Jan 2021	
連絡先情報:	現地のオン・セミコンダクター営業所または < logic.fpcn@onsemi.com > にお問い合わせください。	
通知種別:	本製品速報は通知目的のみのもので、オン・セミコンダクターは本製品速報の発行により本変更を実行します。	
変更カテゴリ:	データシート	
変更サブカテゴリ:	データシート/製品資料の変更/製品仕様の変更	
影響を受ける拠点:		
オン・セミコンダクター拠点:	外部製造工場 / 下請業者拠点:	
なし	なし	

説明および目的:

この変更は製品の形状、適合性、または機能に影響を及ぼしません。

MC74HC1GU04 – VOH/VOL

Existing Datasheet

New

V _{OH}	High-Level Output Voltage	V _{IN} = V _{IH} or V _{IL} I _{OH} = -2 mA	2.0 3.0 4.5 6.0	1.8 2.7 4.0 5.5	2.0 3.0 4.5 6.0	-	1.8 2.7 4.0 5.5	-	1.8 2.7 4.0 5.5	-	V
		V _{IN} = V _{IH} or V _{IL} I _{OH} = -2 mA	4.5 6.0	4.18 5.68	4.33 5.76	-	4.13 5.63	-	4.08 5.58	-	
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{IH} or V _{IL} I _{OL} = 20 μA	2.0 3.0 4.5 6.0	-	0.0 0.1 0.1 0.1	0.1 0.1 0.1 0.1	-	0.1 0.1 0.1 0.1	-	0.1 0.1 0.1 0.1	V
		V _{IN} = V _{IH} or V _{IL} I _{OL} = 2 mA	4.5 6.0	-	0.17 0.18	0.26 0.26	-	0.33 0.33	-	0.40 0.40	

V _{OH}	High-Level Output Voltage	V _{IN} = V _{IH} or V _{IL} I _{OH} = -20 μA	2.0 3.0 4.5 6.0	1.8 2.7 4.0 5.5	2.0 3.0 4.5 6.0	-	1.8 2.7 4.0 5.5	-	1.8 2.7 4.0 5.5	-	V
		V _{IN} = GND I _{OH} = -2 mA I _{OH} = -2.6 mA	4.5 6.0	4.18 5.68	4.33 5.76	-	4.13 5.63	-	4.08 5.58	-	
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{IH} or V _{IL} I _{OL} = 20 μA	2.0 3.0 4.5 6.0	-	0.0 0.1 0.1 0.1	0.1 0.1 0.1 0.1	-	0.1 0.1 0.1 0.1	-	0.1 0.1 0.1 0.1	V
		V _{IN} = V _{CC} I _{OL} = 2 mA I _{OL} = 2.6 mA	4.5 6.0	-	0.17 0.18	0.26 0.26	-	0.33 0.33	-	0.40 0.40	

NC75U04 – 絶対最大定格

Existing Datasheet

New

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min	Max	Unit
V _{CC}	Supply Voltage	-0.5	6.5	V
I _{IK}	DC Input Diode Current	V _{IN} ≤ -0.5 V V _{IN} ≥ V _{CC} + 0.5 V	- +20	mA
V _{IN}	DC Input Voltage	-0.5	V _{CC} + 0.5	V
I _{OK}	DC Output Diode Current	V _{OUT} < -0.5 V V _{OUT} > V _{CC} + 0.5 V	- +20	mA
V _{OUT}	DC Output Voltage	-0.5	V _{CC} + 0.5	V

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min	Max	Unit
V _{CC}	DC Supply Voltage	-0.5	+6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < 0 V V _{IN} > V _{CC}	- +20	mA
V _{IN}	DC Input Voltage	-0.5	V _{CC} + 0.5	V
I _{OK}	DC Output Diode Current	V _{OUT} < 0 V V _{OUT} > V _{CC}	- +20	mA
V _{OUT}	DC Output Voltage	-0.5	V _{CC} + 0.5	V



NL17SZU04 – 最大定格、VOH/VOL and IOFF

Existing Datasheet

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit	
V _{CC}	DC Supply Voltage	SC-88A (NLV)	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88A (NLV)	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage		-0.5 to V _{CC} + 0.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < GND	-50	mA
I _{OUT}	DC Output Source/Sink Current		±50	mA

V _{OH}	High-Level Output Voltage	V _{IN} = V _{OH} or V _{IL}	1.65 to 5.5	V _{CC} - 0.1	V _{CC}	-	V _{CC} - 0.1	-	V
		I _{OH} = -100 μA	1.65	1.29	1.4	-	1.29	-	
		I _{OH} = -4 mA	2.3	1.9	2.1	-	1.9	-	
		I _{OH} = -8 mA	2.7	2.2	2.4	-	2.2	-	
		I _{OH} = -12 mA	3.0	2.4	2.7	-	2.4	-	
		I _{OH} = -16 mA	3.0	2.3	2.5	-	2.3	-	
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{OH} or V _{IL}	1.65 to 5.5	-	0.1	-	0.1	-	V
		I _{OL} = 100 μA	1.65	-	0.08	0.24	-	0.24	
		I _{OL} = 4 mA	2.3	-	0.2	0.3	-	0.3	
		I _{OL} = 8 mA	2.7	-	0.22	0.4	-	0.4	
		I _{OL} = 12 mA	3.0	-	0.28	0.4	-	0.4	
		I _{OL} = 16 mA	3.0	-	0.38	0.55	-	0.55	
I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1	-	±1.0	μA
		V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	μA

New

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit	
V _{CC}	DC Supply Voltage	SC-88A (NLV)	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88A (NLV)	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage		-0.5 to V _{CC} + 0.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	-50	mA
I _{OK}	DC Output Diode Current		±50	mA
I _{OUT}	DC Output Source/Sink Current		±50	mA

V _{OH}	High-Level Output Voltage	V _{IN} = GND	1.65 to 5.5	V _{CC} - 0.1	V _{CC}	-	V _{CC} - 0.1	-	V
		I _{OH} = -100 μA	1.65	1.29	1.4	-	1.29	-	
		I _{OH} = -4 mA	2.3	1.9	2.1	-	1.9	-	
		I _{OH} = -8 mA	2.7	2.2	2.4	-	2.2	-	
		I _{OH} = -12 mA	3.0	2.4	2.7	-	2.4	-	
		I _{OH} = -16 mA	3.0	2.3	2.5	-	2.3	-	
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{CC}	1.65 to 5.5	-	0.1	-	0.1	-	V
		I _{OL} = 100 μA	1.65	-	0.08	0.24	-	0.24	
		I _{OL} = 4 mA	2.3	-	0.2	0.3	-	0.3	
		I _{OL} = 8 mA	2.7	-	0.22	0.4	-	0.4	
		I _{OL} = 12 mA	3.0	-	0.28	0.4	-	0.4	
		I _{OL} = 16 mA	3.0	-	0.38	0.55	-	0.55	
I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1	-	±1.0	μA
		V _{IN} = 5.5 V	0	-	-	1.0	-	10	μA

NL27WZU04 – 最大定格、VOH/VOL and IOFF

Existing Datasheet

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit	
V _{CC}	DC Supply Voltage	SC-88A (NLV)	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88A (NLV)	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage		-0.5 to V _{CC} + 0.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < GND	-50	mA
I _{OUT}	DC Output Source/Sink Current		±50	mA

V _{OH}	High-Level Output Voltage	V _{IN} = V _{OH} or V _{IL}	1.65 to 5.5	V _{CC} - 0.1	V _{CC}	-	V _{CC} - 0.1	-	V
		I _{OH} = -100 μA	1.65	1.29	1.4	-	1.29	-	
		I _{OH} = -4 mA	2.3	1.9	2.1	-	1.9	-	
		I _{OH} = -8 mA	2.7	2.2	2.4	-	2.2	-	
		I _{OH} = -12 mA	3.0	2.4	2.7	-	2.4	-	
		I _{OH} = -16 mA	3.0	2.3	2.5	-	2.3	-	
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{OH} or V _{IL}	1.65 to 5.5	-	0.1	-	0.1	-	V
		I _{OL} = 100 μA	1.65	-	0.08	0.24	-	0.24	
		I _{OL} = 4 mA	2.3	-	0.2	0.3	-	0.3	
		I _{OL} = 8 mA	2.7	-	0.22	0.4	-	0.4	
		I _{OL} = 12 mA	3.0	-	0.28	0.4	-	0.4	
		I _{OL} = 16 mA	3.0	-	0.38	0.55	-	0.55	
I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1	-	±1.0	μA
		V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	μA

New

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit	
V _{CC}	DC Supply Voltage	SC-88A (NLV)	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88A (NLV)	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage		-0.5 to V _{CC} + 0.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	-50	mA
I _{OK}	DC Output Diode Current		±50	mA
I _{OUT}	DC Output Source/Sink Current		±50	mA

V _{OH}	High-Level Output Voltage	V _{IN} = GND	1.65 to 5.5	V _{CC} - 0.1	V _{CC}	-	V _{CC} - 0.1	-	V
		I _{OH} = -100 μA	1.65	1.29	1.4	-	1.29	-	
		I _{OH} = -4 mA	2.3	1.9	2.1	-	1.9	-	
		I _{OH} = -8 mA	2.7	2.2	2.4	-	2.2	-	
		I _{OH} = -12 mA	3.0	2.4	2.7	-	2.4	-	
		I _{OH} = -16 mA	3.0	2.3	2.5	-	2.3	-	
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{CC}	1.65 to 5.5	-	0.1	-	0.1	-	V
		I _{OL} = 100 μA	1.65	-	0.08	0.24	-	0.24	
		I _{OL} = 4 mA	2.3	-	0.2	0.3	-	0.3	
		I _{OL} = 8 mA	2.7	-	0.22	0.4	-	0.4	
		I _{OL} = 12 mA	3.0	-	0.28	0.4	-	0.4	
		I _{OL} = 16 mA	3.0	-	0.38	0.55	-	0.55	
I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1	-	±1.0	μA
		V _{IN} = 5.5 V	0	-	-	1.0	-	10	μA



NC7SZU04 – 絶対最大定格および VOH/VOL

Existing Datasheet

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min	Max	Unit	
V _{CC}	Supply Voltage	-0.5	6.0	V	
V _{IN}	DC Input Voltage	-0.5	6.0	V	
V _{OUT}	DC Output Voltage	-0.5	6.0	V	
I _{IK}	DC Input Diode Current	V _{IN} < -0.5 V	-	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < -0.5 V	-	-50	mA
I _{OUT}	DC Output Current	V _{OUT} > 0.5 V, V _{CC} = GND	-	±50	mA

Symbol	Parameter	V _{CC} = 5.5 V				Unit				
		1.65	2.3	3.0	4.5					
V _{OH}	HIGH Level Output Voltage	V _{IN} = V _{IL} , I _{OH} = -100 μA		1.55	1.65	-	1.55	-	V	
		I _{OH} = -4 mA		1.60	1.80	-	1.60	-	V	
		I _{OH} = -8 mA		2.10	2.30	-	2.10	-	V	
		I _{OH} = -12 mA		2.70	3.00	-	2.70	-	V	
		I _{OH} = -16 mA		4.00	4.40	-	4.00	-	V	
		I _{OH} = -24 mA		4.00	4.40	-	4.00	-	V	
	V _{OL}	LOW Level Output Voltage	V _{IN} = GND, I _{OL} = 4 mA		1.29	1.52	-	1.29	-	V
			I _{OL} = 8 mA		1.90	2.14	-	1.90	-	V
			I _{OL} = 12 mA		2.40	2.75	-	2.40	-	V
			I _{OL} = 16 mA		2.30	2.61	-	2.30	-	V
			I _{OL} = 24 mA		3.80	4.13	-	3.80	-	V
			I _{OL} = 32 mA		3.80	4.13	-	3.80	-	V

New

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min	Max	Unit	
V _{CC}	Supply Voltage	-0.5	6.5	V	
V _{IN}	DC Input Voltage	-0.5	6.5	V	
V _{OUT}	DC Output Voltage	-0.5	6.5	V	
I _{IK}	DC Input Diode Current	V _{IN} < 0 V	-	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < 0 V	-	-50	mA
I _{OUT}	DC Output Current	V _{OUT} > V _{CC}	-	±50	mA

Symbol	Parameter	V _{CC} = 5.5 V				Unit					
		1.65 to 5.5	V _{CC} - 0.1	V _{CC}	V _{CC} - 0.1						
V _{OH}	High-Level Output Voltage	V _{IN} = GND, I _{OH} = -100 μA		1.65	1.29	-	1.29	-	V		
		I _{OH} = -4 mA		1.65	1.29	1.4	1.29	-	V		
		I _{OH} = -8 mA		2.3	1.9	2.1	1.9	-	V		
		I _{OH} = -12 mA		2.7	2.2	2.4	2.2	-	V		
		I _{OH} = -16 mA		3.0	2.4	2.7	2.4	-	V		
		I _{OH} = -24 mA		3.0	2.3	2.5	2.3	-	V		
		I _{OH} = -32 mA		4.5	3.8	4.0	3.8	-	V		
		V _{OL}	Low-Level Output Voltage	V _{IN} = V _{CC} , I _{OL} = 100 μA		1.65 to 5.5	-	0.1	-	0.1	V
				I _{OL} = 4 mA		1.65	-	0.08	0.24	-	0.24
				I _{OL} = 8 mA		2.3	-	0.2	0.3	-	0.3
				I _{OL} = 12 mA		2.7	-	0.22	0.4	-	0.4
				I _{OL} = 16 mA		3.0	-	0.28	0.4	-	0.4
I _{OL} = 24 mA				3.0	-	0.38	0.55	-	0.55		

NC7WZU04 – 絶対最大定格および VOH/VOL

Existing Datasheet

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min	Max	Unit	
V _{CC}	Supply Voltage	-0.5	6.5	V	
V _{IN}	DC Input Voltage	-0.5	6.5	V	
V _{OUT}	DC Output Voltage	-0.5	6.5	V	
I _{IK}	DC Input Diode Current	V _{IN} < -0.5 V	-	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < -0.5 V	-	-50	mA
I _{OUT}	DC Output Current	V _{OUT} > 0.5 V, V _{CC} = GND	-	±50	mA

Symbol	Parameter	V _{CC} = 5.5 V				Unit				
		1.65	2.3	3.0	4.5					
V _{OH}	HIGH Level Output Voltage	V _{IN} = V _{IL} , I _{OH} = -100 μA		1.55	1.65	-	1.55	-	V	
		I _{OH} = -4 mA		1.6	1.79	-	1.6	-	V	
		I _{OH} = -8 mA		2.1	2.29	-	2.1	-	V	
		I _{OH} = -12 mA		2.7	2.99	-	2.7	-	V	
		I _{OH} = -16 mA		4.0	4.48	-	4.0	-	V	
		I _{OH} = -24 mA		4.0	4.48	-	4.0	-	V	
	V _{OL}	LOW Level Output Voltage	V _{IN} = GND, I _{OL} = 2 mA		1.29	1.52	-	1.29	-	V
			I _{OL} = 4 mA		1.9	2.19	-	1.9	-	V
			I _{OL} = 6 mA		2.4	2.82	-	2.4	-	V
			I _{OL} = 8 mA		2.3	2.73	-	2.3	-	V
			I _{OL} = 12 mA		3.8	4.24	-	3.8	-	V
			I _{OL} = 16 mA		3.8	4.24	-	3.8	-	V

New

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Min	Max	Unit	
V _{CC}	Supply Voltage	-0.5	6.5	V	
V _{IN}	DC Input Voltage	-0.5	6.5	V	
V _{OUT}	DC Output Voltage	-0.5	6.5	V	
I _{IK}	DC Input Diode Current	V _{IN} < 0 V	-	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < 0 V	-	-50	mA
I _{OUT}	DC Output Current	V _{OUT} > V _{CC}	-	±50	mA

Symbol	Parameter	V _{CC} = 5.5 V				Unit					
		1.65 to 5.5	V _{CC} - 0.1	V _{CC}	V _{CC} - 0.1						
V _{OH}	High-Level Output Voltage	V _{IN} = GND, I _{OH} = -100 μA		1.65 to 5.5	-	0.1	-	0.1	V		
		I _{OH} = -4 mA		1.65	1.29	1.4	1.29	-	V		
		I _{OH} = -8 mA		2.3	1.9	2.1	1.9	-	V		
		I _{OH} = -12 mA		2.7	2.2	2.4	2.2	-	V		
		I _{OH} = -16 mA		3.0	2.4	2.7	2.4	-	V		
		I _{OH} = -24 mA		3.0	2.3	2.5	2.3	-	V		
		I _{OH} = -32 mA		4.5	3.8	4.0	3.8	-	V		
		V _{OL}	Low-Level Output Voltage	V _{IN} = V _{CC} , I _{OL} = 100 μA		1.65 to 5.5	-	0.08	0.24	-	0.1
				I _{OL} = 4 mA		1.65	-	0.08	0.24	-	0.24
				I _{OL} = 8 mA		2.3	-	0.2	0.3	-	0.3
				I _{OL} = 12 mA		2.7	-	0.22	0.4	-	0.4
				I _{OL} = 16 mA		3.0	-	0.28	0.4	-	0.4
I _{OL} = 24 mA				3.0	-	0.38	0.55	-	0.55		



MC74VHC1GU04 – VOH/VOL

Existing Datasheet

VOH	Minimum High-Level Output Voltage VIN = VIH or VIL IOH = -50 µA	2.0	1.9	2.0	1.9	1.9	V
		3.0	2.9	3.0	2.9	2.9	V
VOL	Maximum Low-Level Output Voltage VIN = VIH or VIL IOL = 50 µA	2.0	0.0	0.1	0.1	0.1	V
		3.0	0.0	0.1	0.1	0.1	V

New

VOH	Minimum High-Level Output Voltage VIN = VIH or VIL IOH = -50 µA	2.0	1.9	2.0	1.9	1.9	V
		3.0	2.9	3.0	2.9	2.9	V
VOL	Maximum Low-Level Output Voltage VIN = VIH or VIL IOL = 50 µA	2.0	0.0	0.1	0.1	0.1	V
		3.0	0.0	0.1	0.1	0.1	V

影響を受ける部品の一覧:

注: 標準の部品番号(既製品)のみが部品一覧に記載されます。本 PCN に影響を受けるカスタム 部品は、PCN メールのお客様の特定の PCN の付属文書、または PCN カスタマイズポータルに記載されています。

NL17SZU04DFT2G	M74VHC1GU04DFT2G	M74VHC1GU04DFT1G
MC74HC1GU04DFT1G	MC74HC1GU04DFT2G	MC74VHC1GU04DF1G
NC7SZU04P5X	NC7SU04P5X	MC74VHC1GU04DBVT1G
MC74HC1GU04DBVT1G	NL17SZU04DBVT1G	NC7SZU04M5X
NC7SU04M5X	MC74VHC1GU04MU1TCG	MC74VHC1GU04MU3TCG
MC74VHC1GU04MU2TCG	NL17SZU04XV5T2G	NL17SZU04P5T5G
NL27WZU04DBVT1G	NL27WZU04DFT2G	NC7WZU04P6X
NC7SU04L6X	NC7WZU04L6X	NC7SZU04L6X
NC7SZU04FHX		