

74HC3G07-Q100; 74HCT3G07-Q100

Triple buffer with open-drain outputs

Rev. 4 — 13 December 2023

Product data sheet

1. General description

The 74HC3G07-Q100; 74HCT3G07-Q100 is a triple buffer with open-drain outputs. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC}.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
 - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Wide supply voltage range from 2.0 V to 6.0 V
- Input levels:
 - For 74HC3G07-Q100: CMOS level
 - For 74HCT3G07-Q100: TTL level
- CMOS low power dissipation
- · High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standards
 - JESD8C (2.7 V to 3.6 V)
 - JESD7A (2.0 V to 6.0 V)
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V

3. Ordering information

Table 1. Ordering information

Type number	Package						
	Temperature range	Name	Description	Version			
74HC3G07DP-Q100 74HCT3G07DP-Q100	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2			
74HC3G07DC-Q100 74HCT3G07DC-Q100	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1			



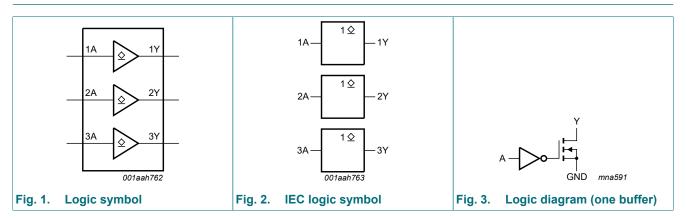
4. Marking

Table 2. Marking code

Type number	Marking code [1]
74HC3G07DP-Q100	H07
74HCT3G07DP-Q100	Т07
74HC3G07DC-Q100	H07
74HCT3G07DC-Q100	Т07

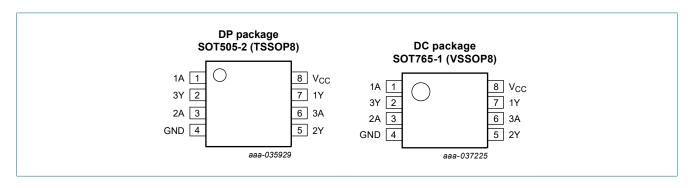
^[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description

Table 6.1 III description						
Symbol Pin		Description				
1A, 2A, 3A	1, 3, 6	data input				
GND	4	ground (0 V)				
1Y, 2Y, 3Y	7, 5, 2	data output				
V _{CC}	8	supply voltage				

74HC_HCT3G07_Q100

7. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level; Z = high-impedance OFF-state.

Input nA	Output nY
L	L
Н	Z

8. Limiting values

Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		-0.5	7.0	V
I _{IK}	input clamping current	$V_1 < -0.5 \text{ V or } V_1 > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
lok	output clamping current	$V_{O} < -0.5 \text{ V}$ [1]	-20	-	mA
Vo	output voltage	active mode [1]	-0.5	V _{CC} + 0.5	V
		high-impedance mode [1]	-0.5	7.0	V
Io	output current	$V_{O} = -0.5 \text{ V to } 7.0 \text{ V}$ [1]	-25	-	mA
I _{CC}	supply current	[1]	-	50	mΑ
I_{GND}	ground current	[1]	-50	-	mΑ
T _{stg}	storage temperature		-65	+150	°C
P_D	dynamic power dissipation	$T_{amb} = -40 ^{\circ}\text{C to} + 125 ^{\circ}\text{C}$ [2]	-	250	mW

^{1]} The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

9. Recommended operating conditions

Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Symbol Parameter Co		74HC3G07-Q100			74HCT3G07-Q100			Unit
			Min	Тур	Max	Min	Тур	Max	
V_{CC}	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	6.0	0	-	5.5	V
V _O	output voltage		0	-	V _{CC}	0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 2.0 V	-	-	625	-	-	-	ns/V
		V _{CC} = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V _{CC} = 6.0 V	-	-	83	-	-	-	ns/V

^[2] For SOT505-2 (TSSOP8) package: P_{tot} derates linearly with 4.6 mW/K above 96 °C. For SOT765-1 (VSSOP8) package: P_{tot} derates linearly with 4.9 mW/K above 99 °C.

10. Static characteristics

Table 7. Static characteristics

Voltages are referenced to GND (ground = 0 V).

level input	V _{CC} = 2.0 V V _{CC} = 4.5 V	Min	Typ [1]	Max	Min	Max	
level input		4.5	'				
e		4 -					
	V _{CC} = 4.5 V	1.5	1.2	-	1.5	-	V
evel input		3.15	2.4	-	3.15	-	V
evel input	V _{CC} = 6.0 V	4.2	3.2	-	4.2	-	V
	V _{CC} = 2.0 V	-	0.8	0.5	-	0.5	V
e	V _{CC} = 4.5 V	-	2.1	1.35	-	1.35	V
	V _{CC} = 6.0 V	-	2.8	1.8	-	1.8	V
evel output	V _I = V _{IH} or V _{IL}						
e	$I_{O} = 20 \mu A; V_{CC} = 2.0 V$	-	0	0.1	-	0.1	V
	I _O = 20 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	V
	I _O = 20 μA; V _{CC} = 6.0 V	-	0	0.1	-	0.1	V
	I _O = 4.0 mA; V _{CC} = 4.5 V	-	0.15	0.33	-	0.4	V
	I _O = 5.2 mA; V _{CC} = 6.0 V	-	0.16	0.33	-	0.4	V
-	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	μA
-	$V_I = V_{IH}$; $V_O = V_{CC}$ or GND	-	-	±5.0	-	±10	μΑ
supply current per input pin; $V_{CC} = 6.0 \text{ V}$; $V_{I} = V_{CC}$ or GND; $I_{O} = 0 \text{ A}$		-	-	10	-	20	μA
apacitance		-	1.5	-	-	-	рF
00							
	V _{CC} = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	V
	V _{CC} = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	V
evel output	V _I = V _{IH} or V _{IL}						
e	I _O = 20 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	V
	I _O = 4.0 mA; V _{CC} = 4.5 V	-	0.15	0.33	-	0.4	V
	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±1.0	-	±1.0	μΑ
	$V_I = V_{IH}$; $V_O = V_{CC}$ or GND	-	-	±5.0	-	±10	μΑ
current	per input pin; $V_{CC} = 5.5 \text{ V}$; $V_I = V_{CC}$ or GND; $I_O = 0 \text{ A}$	-	-	10	-	20	μA
	per input; $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V};$ $V_1 = V_{CC} - 2.1 \text{ V}; I_O = 0 \text{ A}$	-	-	375	-	410	μΑ
apacitance		-	1.5	-	-	-	pF
	evel output e eakage t leakage t	$V_{CC} = 4.5 \text{ V}$ $V_{CC} = 6.0 \text{ V}$ $V_{I} = V_{IH} \text{ or } V_{IL}$ $I_{O} = 20 \mu\text{A}; V_{CC} = 2.0 \text{ V}$ $I_{O} = 20 \mu\text{A}; V_{CC} = 4.5 \text{ V}$ $I_{O} = 20 \mu\text{A}; V_{CC} = 6.0 \text{ V}$ $I_{O} = 4.0 \text{ mA}; V_{CC} = 6.0 \text{ V}$ $I_{O} = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$ $I_{O} = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$ $V_{I} = V_{CC} \text{ or } \text{GND}; V_{CC} = 6.0 \text{ V}$ $V_{I} = V_{CC} \text{ or } \text{GND}; V_{CC} = 6.0 \text{ V}$ $V_{I} = V_{CC} \text{ or } \text{GND}; I_{O} = 0 \text{ A}$ $V_{I} = V_{CC} \text{ or } \text{GND}; I_{O} = 0 \text{ A}$ $V_{I} = V_{CC} \text{ or } \text{GND}; I_{O} = 0 \text{ A}$ $V_{I} = V_{IH} \text{ or } V_{IL}$ $V_{I} = V_{IH} \text{ or } V_{IL}$ $V_{I} = V_{IH} \text{ or } V_{IL}$ $V_{I} = V_{CC} \text{ or } \text{GND}; V_{CC} = 4.5 \text{ V}$ $V_{I} = V_{CC} \text{ or } \text{GND}; V_{CC} = 5.5 \text{ V}$ $V_{I} = V_{CC} \text{ or } \text{GND}; V_{CC} = 5.5 \text{ V}$ $V_{I} = V_{CC} \text{ or } \text{GND}; V_{CC} = 5.5 \text{ V}$ $V_{I} = V_{CC} \text{ or } \text{GND}; V_{CC} = 5.5 \text{ V};$ $V_{I} = V_{CC} \text{ or } \text{GND}; I_{O} = 0 \text{ A}$ $V_{I} = V_{CC} \text{ or } \text{GND}; I_{O} = 0 \text{ A}$ $V_{I} = V_{CC} \text{ or } \text{GND}; I_{O} = 0 \text{ A}$ $V_{I} = V_{CC} \text{ or } \text{GND}; I_{O} = 0 \text{ A}$ $V_{I} = V_{CC} \text{ or } \text{GND}; I_{O} = 0 \text{ A}$ $V_{I} = V_{CC} \text{ or } \text{GND}; I_{O} = 0 \text{ A}$ $V_{I} = V_{CC} \text{ or } \text{GND}; I_{O} = 0 \text{ A}$ $V_{I} = V_{CC} \text{ or } \text{GND}; I_{O} = 0 \text{ A}$	$ \begin{array}{c} v_{CC} = 4.3 \ V \\ V_{CC} = 6.0 \ V \\ \end{array} \\ \begin{array}{c} v_{CC} = 6.0 \ V \\ \end{array} \\ \begin{array}{c} v_{CC} = 6.0 \ V \\ \end{array} \\ \begin{array}{c} v_{CC} = 20 \ \mu A; \ V_{CC} = 2.0 \ V \\ \hline v_{CC} = 20 \ \mu A; \ V_{CC} = 4.5 \ V \\ \hline v_{CC} = 20 \ \mu A; \ V_{CC} = 6.0 \ V \\ \hline v_{CC} = 4.0 \ mA; \ V_{CC} = 6.0 \ V \\ \hline v_{CC} = 5.2 \ mA; \ V_{CC} = 6.0 \ V \\ \hline v_{CC} = 5.2 \ mA; \ V_{CC} = 6.0 \ V \\ \end{array} \\ \begin{array}{c} v_{CC} = 6.0 \ V \\ \hline v_{CC} = 0.0 \ V $	$\begin{array}{c} V_{CC} = 4.3 \text{ V} & - & 2.1 \\ V_{CC} = 6.0 \text{ V} & - & 2.8 \\ \hline \\ V_{I} = V_{IH} \text{ or } V_{IL} \\ \hline \\ I_{O} = 20 \ \mu\text{A; } V_{CC} = 2.0 \text{ V} & - & 0 \\ \hline \\ I_{O} = 20 \ \mu\text{A; } V_{CC} = 4.5 \text{ V} & - & 0 \\ \hline \\ I_{O} = 20 \ \mu\text{A; } V_{CC} = 6.0 \text{ V} & - & 0.15 \\ \hline \\ I_{O} = 5.2 \ m\text{A; } V_{CC} = 6.0 \text{ V} & - & 0.16 \\ \hline \\ \text{eakage} & V_{I} = V_{CC} \text{ or } \text{GND; } V_{CC} = 6.0 \text{ V} & - \\ \hline \\ \text{current} & \text{per input pin; } V_{CC} = 6.0 \text{ V} & - \\ \hline \\ \text{v}_{I} = V_{CC} \text{ or } \text{GND; } I_{O} = 0 \text{ A} \\ \hline \\ \text{apacitance} & - & 1.5 \\ \hline \\ \textbf{100} & & & & & & & & & & & & & & & & & & $	$ \begin{array}{c} v_{CC} = 4.5 \ V \\ V_{CC} = 6.0 \ V \\ \hline V_{CC} = 6.0 \ V \\ \hline V_{CC} = 6.0 \ V \\ \hline \\ v_{C} = 20 \ \mu \text{A}; \ V_{CC} = 2.0 \ V \\ \hline \\ v_{C} = 20 \ \mu \text{A}; \ V_{CC} = 2.0 \ V \\ \hline \\ v_{C} = 20 \ \mu \text{A}; \ V_{CC} = 4.5 \ V \\ \hline \\ v_{C} = 20 \ \mu \text{A}; \ V_{CC} = 6.0 \ V \\ \hline \\ v_{C} = 4.0 \ \text{mA}; \ V_{CC} = 6.0 \ V \\ \hline \\ v_{C} = 5.2 \ \text{mA}; \ V_{CC} = 6.0 \ V \\ \hline \\ v_{C} = 5.2 \ \text{mA}; \ V_{CC} = 6.0 \ V \\ \hline \\ v_{C} = 2.0 \ \text{mA}; \ V_{CC} = 6.0 \ V \\ \hline \\ v_{C} = 2.0 \ \text{mA}; \ V_{CC} = 6.0 \ V \\ \hline \\ v_{C} = 2.0 \ \text{mA}; \ V_{CC} = 6.0 \ V \\ \hline \\ v_{C} = 2.0 \ \text{mA}; \ V_{CC} = 6.0 \ V \\ \hline \\ v_{C} = 2.0 \ \text{mA}; \ V_{CC} = 6.0 \ V \\ \hline \\ v_{C} = 2.0 \ \text{mA}; \ V_{CC} = 6.0 \ V \\ \hline \\ v_{C} = 2.0 \ \text{mA}; \ V_{CC} = 6.0 \ V \\ \hline \\ v_{C} = 2.0 \ \text{mA}; \ V_{CC} = 2.0 \ \text{mB}; \ V_{CC} = 2.0 \ $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} v_{CC} = 4.5 \text{ V} & -2.1 & 1.53 & -1.33 \\ \hline v_{CC} = 6.0 \text{ V} & -2.8 & 1.8 & -1.8 \\ \hline v_{I} = v_{IH} \text{ or } V_{IL} \\ \hline l_{0} = 20 \ \mu\text{A}; \ v_{CC} = 2.0 \ V & -0 & 0.1 & -0.1 \\ \hline l_{0} = 20 \ \mu\text{A}; \ v_{CC} = 4.5 \ V & -0 & 0.1 & -0.1 \\ \hline l_{0} = 20 \ \mu\text{A}; \ v_{CC} = 6.0 \ V & -0.15 & 0.33 & -0.4 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 6.0 \ V & -0.16 & 0.33 & -0.4 \\ \hline l_{0} = 5.2 \ \text{mA}; \ v_{CC} = 6.0 \ V & -0.16 & 0.33 & -0.4 \\ \hline l_{0} = 5.2 \ \text{mA}; \ v_{CC} = 6.0 \ V & -0.16 & 0.33 & -0.4 \\ \hline l_{0} = 5.2 \ \text{mA}; \ v_{CC} = 6.0 \ V & -0.16 & 0.33 & -0.4 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 6.0 \ V & -0.16 & 0.33 & -0.4 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 6.0 \ V & -0.16 & 0.33 & -0.4 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 6.0 \ V; \\ \hline v_{1} = V_{CC} \ \text{or GND}; \ l_{0} = 0 \ \text{A} & -0.10 & -0.1 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 6.0 \ V; \\ \hline v_{1} = V_{CC} \ \text{or GND}; \ l_{0} = 0 \ \text{A} & -0.15 & -0.1 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 4.5 \ \text{V} \ \text{to } 5.5 \ \text{V} & -0.15 & 0.33 & -0.4 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 4.5 \ \text{V} & -0.15 & 0.33 & -0.4 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 4.5 \ \text{V} & -0.15 & 0.33 & -0.4 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 4.5 \ \text{V} & -0.15 & 0.33 & -0.4 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 4.5 \ \text{V} & -0.15 & 0.33 & -0.4 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 4.5 \ \text{V} & -0.15 & 0.33 & -0.4 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 5.5 \ \text{V} & -0.15 & 0.33 & -0.4 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 5.5 \ \text{V}; \ v_{1} = v_{CC} \ \text{or GND}; \ l_{0} = 0 \ \text{A} & -0.15 & 0.35 & -0.15 \\ \hline l_{0} = 4.0 \ \text{mA}; \ v_{CC} = 5.5 \ \text{V}; \ v_{1} = v_{CC} \ \text{or GND}; \ l_{0} = 0 \ \text{A} & -0.15 & 0.375 & -0.10 \\ \hline l_{0} = 1.0 \ \text{current} & \text{per input pin}; \ v_{CC} = 5.5 \ \text{V}; \ v_{1} = v_{CC} \ \text{or GND}; \ l_{0} = 0 \ \text{A} & -0.10 & -0.10 & -0.10 \\ \hline l_{0} = 1.0 \ \text{current} & \text{per input}; \ v_{CC} = 5.5 \ \text{V}; \ v_{1} = v_{CC} \ \text{or GND}; \ l_{0} = 0 \ \text{A} & -0.10 & -0.10 & -0.10 \\ \hline l_{0} = 1.0 \ \text{current} & \text{per input}; \ v_{CC} = 2.5 \ \text{V}; \ v_{1} = 0.0 \ \text$

^[1] Typical values are measured at T_{amb} = 25 °C.

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 5.

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
74HC3G	07-Q100							
t _{PZL}	OFF-state to LOW	nA to nY; see Fig. 4						
	propagation delay	V _{CC} = 2.0 V	-	25	95	-	125	ns
		V _{CC} = 4.5 V	-	9	19	-	25	ns
		V _{CC} = 6.0 V	-	7	16	-	20	ns
t _{PLZ}	LOW to OFF-state	nA to nY; see Fig. 4						
	propagation delay	V _{CC} = 2.0 V	-	25	95	-	125	ns
		V _{CC} = 4.5 V	-	11	23	-	30	ns
		V _{CC} = 6.0 V	-	10	23	-	26	ns
t _{THL}	HIGH to LOW output transition time	nY; see Fig. 4						
		V _{CC} = 2.0 V	-	18	95	-	125	ns
		V _{CC} = 4.5 V	-	6	19	-	25	ns
		V _{CC} = 6.0 V	-	5	16	-	20	ns
C_{PD}	power dissipation capacitance	$V_I = GND \text{ to } V_{CC}$ [2]	-	4	-	-	-	pF
74HCT3	G07-Q100			1				
t _{PZL}	OFF-state to LOW propagation delay	nA to nY; V _{CC} = 4.5 V; see <u>Fig. 4</u>	-	11	27	-	32	ns
t _{PLZ}	LOW to OFF-state propagation delay	nA to nY; V _{CC} = 4.5 V; see <u>Fig. 4</u>	-	10	26	-	31	ns
t _{THL}	HIGH to LOW output transition time	nY; V _{CC} = 4.5 V; see <u>Fig. 4</u>	-	6	19	-	22	ns
C_{PD} power dissipation $V_{I} = GND \text{ to } V_{CC} - 1.5 \text{ V}$ [2] capacitance		-	4		-	-	pF	

[1] Typical values are measured at T_{amb} = 25 °C. [2] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$ where:

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

 $\Sigma(C_L \times V_{CC}^2 \times f_0) = \text{sum of outputs.}$

11.1. Waveforms and test circuit

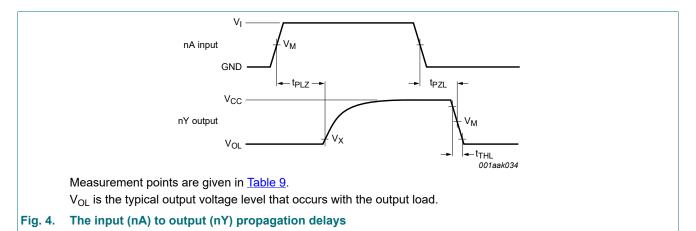
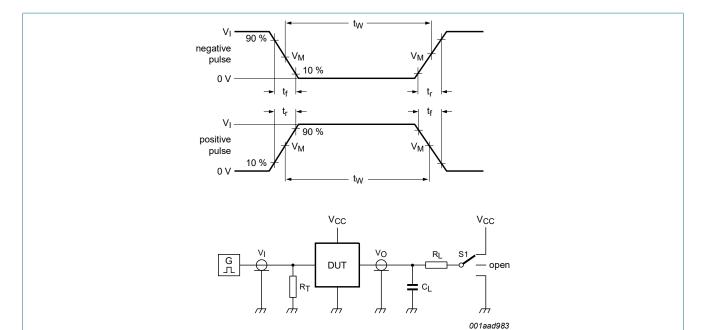


Table 9. Measurement points

Туре	Input	Output				
	V _M	V _M	V _X			
74HC3G07-Q100	0.5 × V _{CC}	0.5 × V _{CC}	0.1 × V _{CC}			
74HCT3G07-Q100	1.3 V	1.3 V	0.1 × V _{CC}			



Test data is given in Table 10.

Definitions for test circuit:

 R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator.

C_L = Load capacitance including jig and probe capacitance.

R_L = Load resistance.

S1 = Test selection switch.

Fig. 5. Test circuit for measuring switching times

Table 10. Test data

Туре	Input		Load	S1 position	
	V _I	t _r , t _f	CL	R_L	t_{PZL} , t_{PLZ}
74HC3G07-Q100	GND to V _{CC}	≤ 6 ns	50 pF	1 kΩ	V _{CC}
74HCT3G07-Q100	GND to 3 V	≤ 6 ns	50 pF	1 kΩ	V _{CC}

12. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

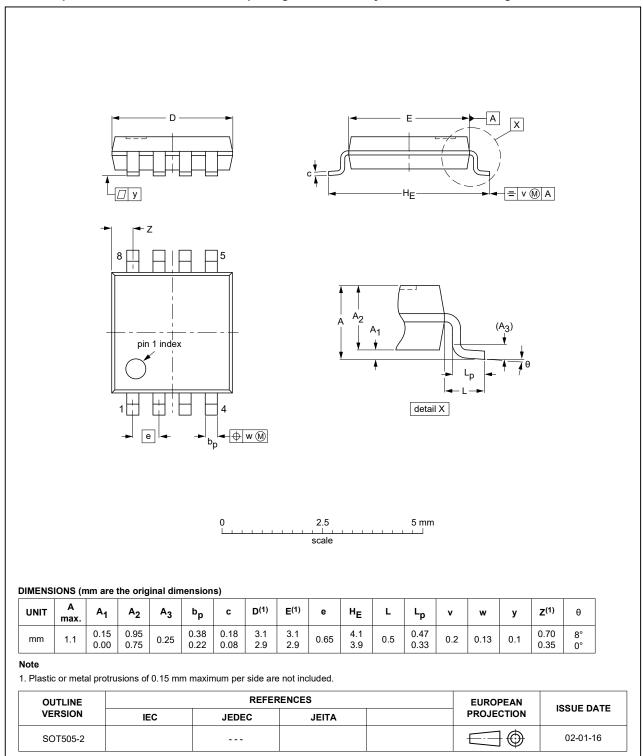


Fig. 6. Package outline SOT505-2 (TSSOP8)

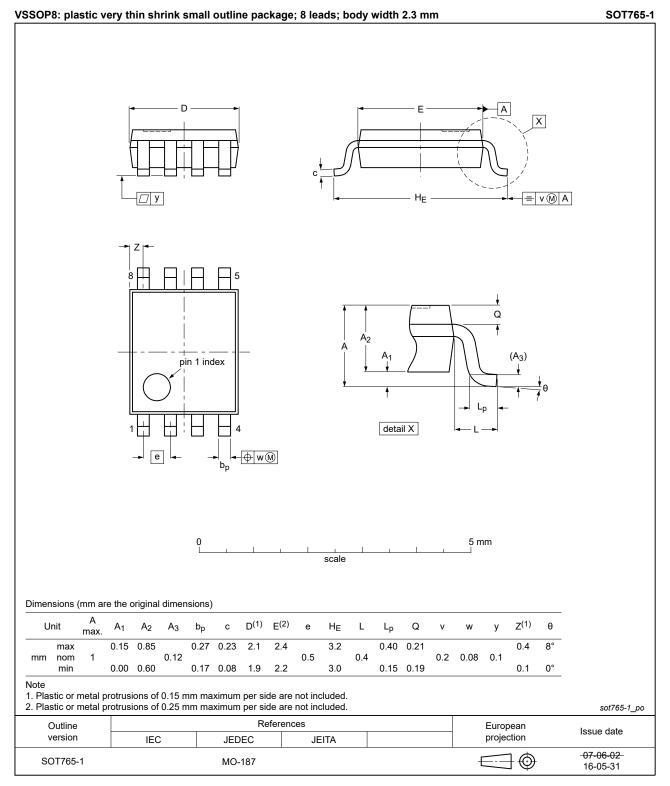


Fig. 7. Package outline SOT765-1 (VSSOP8)

13. Abbreviations

Table 11. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
TTL	Transistor-Transistor Logic

14. Revision history

Table 12. Revision history

and the restriction motory								
Document ID	Release date	Data sheet status	Change notice	Supersedes				
74HC_HCT3G07_Q100 v.4	20231213	Product data sheet	-	74HC_HCT3G07_Q100 v.3				
Modifications:	 <u>Section 2</u> updated. <u>Section 2</u>: ESD specification updated according to the latest JEDEC standard. <u>Section 8</u>: P_{tot} and derating values for P_{tot} total power dissipation updated. 							
74HC_HCT3G07_Q100 v.3	20190124	Product data sheet	-	74HC_HCT3G07_Q100 v.2				
Modifications:	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Package outline drawing SOT765-1 (VSSOP8) updated. 							
74HC_HCT3G07_Q100 v.2	20131211	Product data sheet	-	74HC_HCT3G07_Q100 v.1				
Modifications:	Features and benefits updated (errata).							
74HC_HCT3G07_Q100 v.1	20130917	Product data sheet	-	-				

Product data sheet

15. Legal information

Data sheet status

Document status [1][2]	Product status [3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
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