74LVC1G74

Single D-type flip-flop with set and reset; positive edge trigger

Rev. 18 — 22 September 2025 Product data sheet

1. General description

The 74LVC1G74 is a single positive edge triggered D-type flip-flop with individual data (D), clock (CP), set ($\overline{SD}$) and reset ($\overline{RD}$) inputs, and complementary Q and $\overline{Q}$ outputs. Data at the D-input that meets the set-up and hold time requirements on the LOW-to-HIGH clock transition will be stored in the flip-flop and appear at the Q output. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device is fully specified for partial power down applications using I_{OFF}. The I_{OFF} circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

2. Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- High noise immunity
- ±24 mA output drive (V_{CC} = 3.0 V)
- CMOS low power consumption
- Direct interface with TTL levels
- I_{OFF} circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 250 mA
- Complies with JEDEC standard:
  - JESD8-7 (1.65 V to 1.95 V)
  - JESD8-5 (2.3 V to 2.7 V)
  - JESD8-B/JESD36 (2.7 V to 3.6 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
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVC1G74DP	-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
74LVC1G74DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1
74LVC1G74GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	SOT833-1
74LVC1G74GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116
74LVC1G74GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203

4. Marking

Table 2. Marking codes

Type number	Marking code [1]
74LVC1G74DP	V74
74LVC1G74DC	V74
74LVC1G74GT	V74
74LVC1G74GN	Y4
74LVC1G74GS	Y4

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

5. Functional diagram

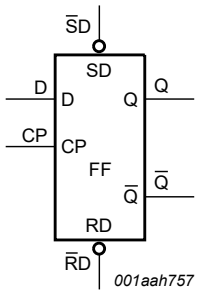


Fig. 1. Logic symbol

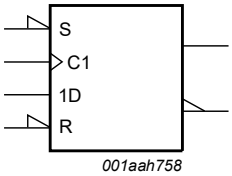


Fig. 2. IEC logic symbol

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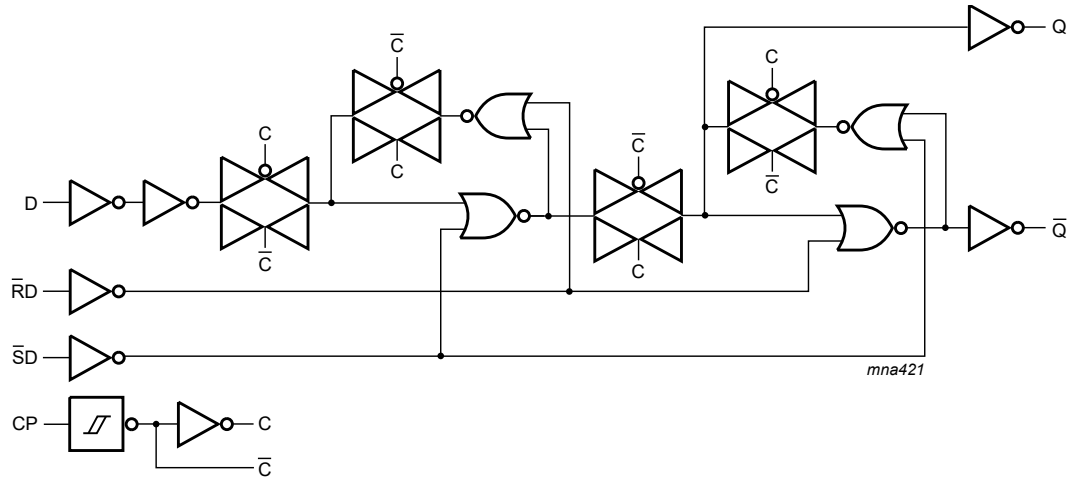
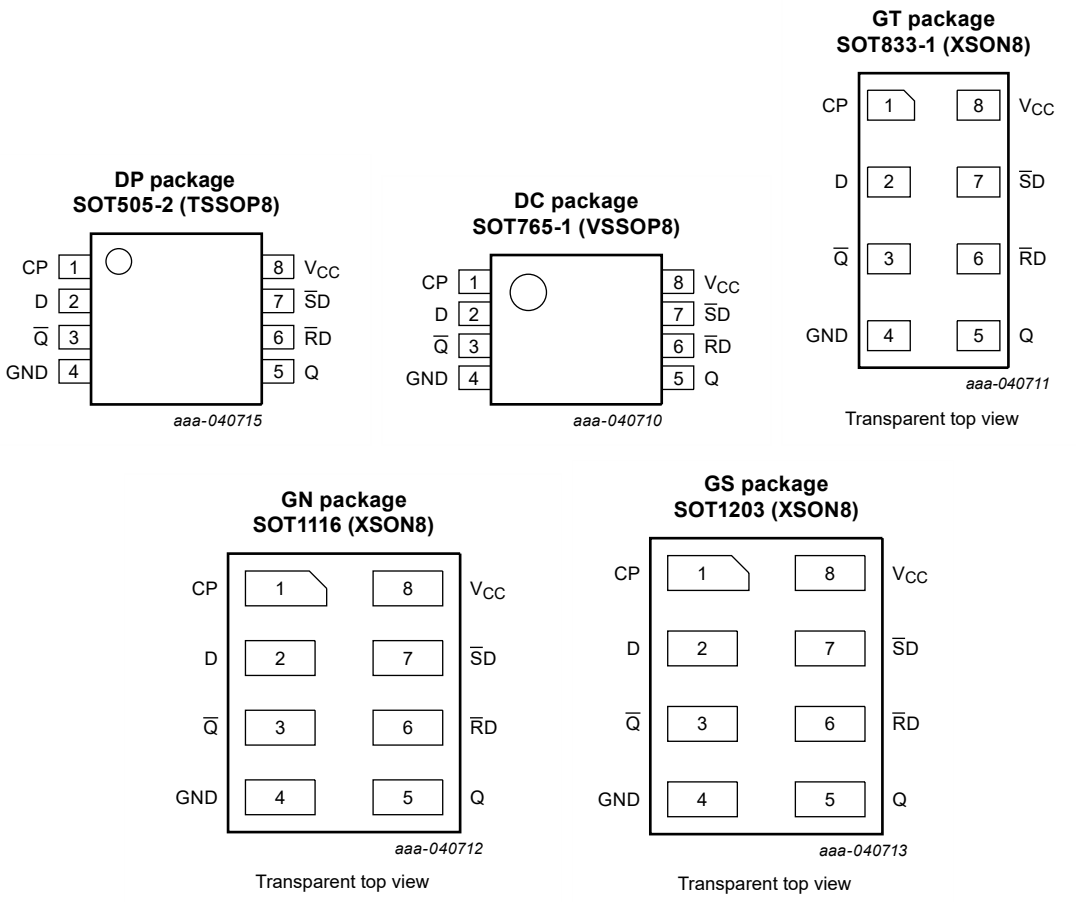


Fig. 3. Logic diagram

6. Pinning information

6.1. Pinning



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6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
CP	1	clock input (LOW-to-HIGH, edge-triggered)
D	2	data input
$\overline{Q}$	3	complement output
GND	4	ground (0 V)
Q	5	true output
$\overline{RD}$	6	asynchronous reset-direct input (active LOW)
$\overline{SD}$	7	asynchronous set-direct input (active LOW)
V_{CC}	8	supply voltage

7. Functional description

Table 4. Function table for asynchronous operation

H = HIGH voltage level; L = LOW voltage level; X = don't care.

Input				Output	
$\overline{SD}$	**$\overline{RD}$**	**CP**	**D**	**Q**	**$\overline{Q}$**
L	H	X	X	H	L
H	L	X	X	L	H
L	L	X	X	H	H
H	H	L	X	Q	$\overline{Q}$

Table 5. Function table for synchronous operation

H = HIGH voltage level; L = LOW voltage level; ↑ = LOW-to-HIGH CP transition;
Q_{n+1} = state after the next LOW-to-HIGH CP transition.

Input				Output	
$\overline{SD}$	**$\overline{RD}$**	**CP**	**D**	**Q_{n+1}**	**$\overline{Q}_{n+1}$**
H	H	↑	L	L	H
H	H	↑	H	H	L

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8. Limiting values

Table 6. 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	+6.5	V
I_{IK}	input clamping current	$V_I < 0$ V	-50	-	mA
V_I	input voltage	[1]	-0.5	+6.5	V
I_{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0$ V	-	±50	mA
V_O	output voltage	Active mode [1]	-0.5	V_{CC} + 0.5	V
		Power-down mode; V_{CC} = 0 V [1]	-0.5	+6.5	V
I_O	output current	V_O = 0 V to V_{CC}	-	±50	mA
I_{CC}	supply current		-	100	mA
I_{GND}	ground current		-100	-	mA
P_{tot}	total power dissipation	T_{amb} = -40 °C to +125 °C [2]	-	250	mW
T_{stg}	storage temperature		-65	+150	°C

[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
[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.
For SOT833-1 (XSON8) package: P_{tot} derates linearly with 3.1 mW/K above 68 °C.
For SOT1116 (XSON8) package: P_{tot} derates linearly with 4.2 mW/K above 90 °C.
For SOT1203 (XSON8) package: P_{tot} derates linearly with 3.6 mW/K above 81 °C.

9. Recommended operating conditions

Table 7. Operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V_{CC}	supply voltage		1.65	5.5	V
V_I	input voltage		0	5.5	V
V_O	output voltage	Active mode	0	V_{CC}	V
		Power-down mode; V_{CC} = 0 V	0	5.5	V
T_{amb}	ambient temperature		-40	+125	°C
Δt/ΔV	input transition rise and fall rate	V_{CC} = 1.65 V to 2.7 V	-	20	ns/V
		V_{CC} = 2.7 V to 5.5 V	-	10	ns/V

10. Static characteristics

Table 8. Static characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	T_{amb} = -40 °C to +85 °C			T_{amb} = -40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
V_{IH}	HIGH-level input voltage	V_{CC} = 1.65 V to 1.95 V	0.65V_{CC}	-	-	0.65V_{CC}	-	V
		V_{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V_{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
		V_{CC} = 4.5 V to 5.5 V	0.7V_{CC}	-	-	0.7V_{CC}	-	V

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Symbol	Parameter	Conditions	T_{amb} = -40 °C to +85 °C			T_{amb} = -40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
V_{IL}	LOW-level input voltage	V_{CC} = 1.65 V to 1.95 V	-	-	$0.35V_{CC}$	-	$0.35V_{CC}$	V
		V_{CC} = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V_{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
		V_{CC} = 4.5 V to 5.5 V	-	-	$0.3V_{CC}$	-	$0.3V_{CC}$	V
V_{OH}	HIGH-level output voltage	V_I = V_{IH} or V_{IL}						
		I_O = -100 µA; V_{CC} = 1.65 V to 5.5 V	V_{CC} - 0.1	-	-	V_{CC} - 0.1	-	V
		I_O = -4 mA; V_{CC} = 1.65 V	1.2	1.54	-	0.95	-	V
		I_O = -8 mA; V_{CC} = 2.3 V	1.9	2.15	-	1.7	-	V
		I_O = -12 mA; V_{CC} = 2.7 V	2.2	2.50	-	1.9	-	V
		I_O = -24 mA; V_{CC} = 3.0 V	2.3	2.62	-	2.0	-	V
		I_O = -32 mA; V_{CC} = 4.5 V	3.8	4.11	-	3.4	-	V
V_{OL}	LOW-level output voltage	V_I = V_{IH} or V_{IL}						
		I_O = 100 µA; V_{CC} = 1.65 V to 5.5 V	-	-	0.10	-	0.10	V
		I_O = 4 mA; V_{CC} = 1.65 V	-	0.07	0.45	-	0.70	V
		I_O = 8 mA; V_{CC} = 2.3 V	-	0.12	0.30	-	0.45	V
		I_O = 12 mA; V_{CC} = 2.7 V	-	0.17	0.40	-	0.60	V
		I_O = 24 mA; V_{CC} = 3.0 V	-	0.33	0.55	-	0.80	V
		I_O = 32 mA; V_{CC} = 4.5 V	-	0.39	0.55	-	0.80	V
I_I	input leakage current	V_I = 5.5 V or GND; V_{CC} = 0 V to 5.5 V	-	±0.1	±1	-	±1	µA
I_{OFF}	power-off leakage current	V_I or V_O = 5.5 V; V_{CC} = 0 V	-	±0.1	±2	-	±2	µA
I_{CC}	supply current	V_I = 5.5 V or GND; V_{CC} = 1.65 V to 5.5 V; I_O = 0 A	-	0.1	4	-	4	µA
ΔI_{CC}	additional supply current	per pin; V_I = V_{CC} - 0.6 V; I_O = 0 A; V_{CC} = 2.3 V to 5.5 V	-	5	500	-	500	µA
C_I	input capacitance		-	4.0	-	-	-	pF

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

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11. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 6.

Symbol	Parameter	Conditions	T_{amb} = -40 °C to +85 °C			T_{amb} = -40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
t_{pd}	propagation delay	CP to Q, $\overline{Q}$; see Fig. 4 [2]						
		V_{CC} = 1.65 V to 1.95 V	1.5	6.0	13.4	1.5	13.4	ns
		V_{CC} = 2.3 V to 2.7 V	1.0	3.5	7.1	1.0	7.1	ns
		V_{CC} = 2.7 V	1.0	3.5	7.1	1.0	7.1	ns
		V_{CC} = 3.0 V to 3.6 V	1.0	3.5	5.9	1.0	5.9	ns
		V_{CC} = 4.5 V to 5.5 V	1.0	2.5	4.1	1.0	4.1	ns
		$\overline{SD}$ to Q, $\overline{Q}$; see Fig. 5 [2]						
		V_{CC} = 1.65 V to 1.95 V	1.5	6.0	12.9	1.5	12.9	ns
		V_{CC} = 2.3 V to 2.7 V	1.0	3.5	7.0	1.0	7.0	ns
		V_{CC} = 2.7 V	1.0	3.5	7.0	1.0	7.0	ns
		V_{CC} = 3.0 V to 3.6 V	1.0	3.0	5.9	1.0	5.9	ns
		V_{CC} = 4.5 V to 5.5 V	1.0	2.5	4.1	1.0	4.1	ns
		$\overline{RD}$ to Q, $\overline{Q}$; see Fig. 5 [2]						
		V_{CC} = 1.65 V to 1.95 V	1.5	5.0	12.9	1.5	12.9	ns
		V_{CC} = 2.3 V to 2.7 V	1.0	3.5	7.0	1.0	7.0	ns
		V_{CC} = 2.7 V	1.0	3.5	7.0	1.0	7.0	ns
		V_{CC} = 3.0 V to 3.6 V	1.0	3.0	5.9	1.0	5.9	ns
		V_{CC} = 4.5 V to 5.5 V	1.0	2.5	4.1	1.0	4.1	ns
t_W	pulse width	CP HIGH or LOW; see Fig. 4						
		V_{CC} = 1.65 V to 1.95 V	6.2	-	-	6.2	-	ns
		V_{CC} = 2.3 V to 2.7 V	2.7	-	-	2.7	-	ns
		V_{CC} = 2.7 V	2.7	-	-	2.7	-	ns
		V_{CC} = 3.0 V to 3.6 V	2.7	1.3	-	2.7	-	ns
		V_{CC} = 4.5 V to 5.5 V	2.0	-	-	2.0	-	ns
		$\overline{SD}$ and $\overline{RD}$ LOW; see Fig. 5						
		V_{CC} = 1.65 V to 1.95 V	6.2	-	-	6.2	-	ns
		V_{CC} = 2.3 V to 2.7 V	2.7	-	-	2.7	-	ns
		V_{CC} = 2.7 V	2.7	-	-	2.7	-	ns
		V_{CC} = 3.0 V to 3.6 V	2.7	1.6	-	2.7	-	ns
		V_{CC} = 4.5 V to 5.5 V	2.0	-	-	2.0	-	ns
t_{rec}	recovery time	$\overline{SD}$ or $\overline{RD}$; see Fig. 5						
		V_{CC} = 1.65 V to 1.95 V	1.9	-	-	1.9	-	ns
		V_{CC} = 2.3 V to 2.7 V	1.4	-	-	1.4	-	ns
		V_{CC} = 2.7 V	1.3	-	-	1.3	-	ns
		V_{CC} = 3.0 V to 3.6 V	+1.2	-3.0	-	+1.2	-	ns
		V_{CC} = 4.5 V to 5.5 V	1.0	-	-	1.0	-	ns

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Symbol	Parameter	Conditions	T_{amb} = -40 °C to +85 °C			T_{amb} = -40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
t_{su}	set-up time	D to CP; see Fig. 4						
		V_{CC} = 1.65 V to 1.95 V	2.9	-	-	2.9	-	ns
		V_{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	ns
		V_{CC} = 2.7 V	1.7	-	-	1.7	-	ns
		V_{CC} = 3.0 V to 3.6 V	1.3	0.5	-	1.3	-	ns
		V_{CC} = 4.5 V to 5.5 V	1.1	-	-	1.1	-	ns
t_h	hold time	D to CP; see Fig. 4						
		V_{CC} = 1.65 V to 1.95 V	1.5	-	-	1.5	-	ns
		V_{CC} = 2.3 V to 2.7 V	1.0	-	-	1.0	-	ns
		V_{CC} = 2.7 V	1.0	-	-	1.0	-	ns
		V_{CC} = 3.0 V to 3.6 V	1.0	0.6	-	1.0	-	ns
		V_{CC} = 4.5 V to 5.5 V	1.0	-	-	1.0	-	ns
f_{max}	maximum frequency	CP; see Fig. 4						
		V_{CC} = 1.65 V to 1.95 V	80	-	-	80	-	MHz
		V_{CC} = 2.3 V to 2.7 V	175	-	-	175	-	MHz
		V_{CC} = 2.7 V	175	-	-	175	-	MHz
		V_{CC} = 3.0 V to 3.6 V	175	280	-	175	-	MHz
		V_{CC} = 4.5 V to 5.5 V	200	-	-	200	-	MHz
C_{PD}	power dissipation capacitance	V_I = GND to V_{CC}; V_{CC} = 3.3 V [3]	-	15	-	-	-	pF

[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.

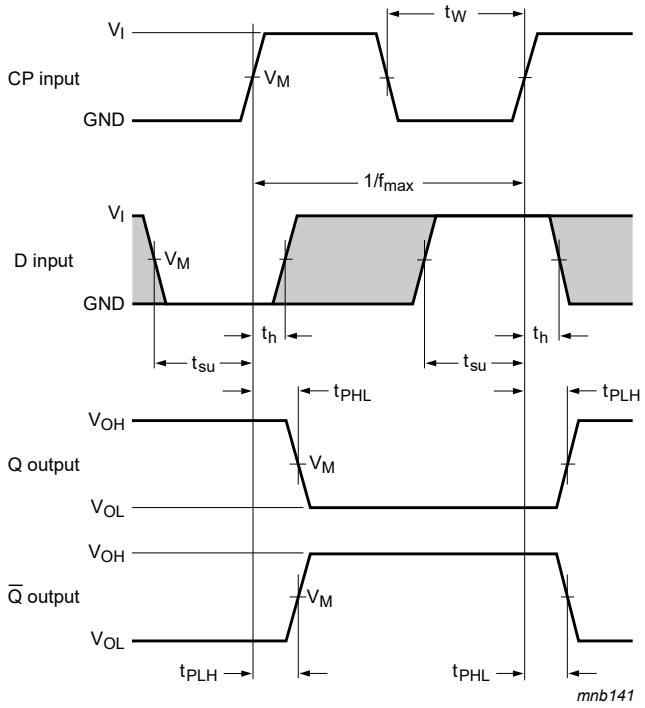
[2] t_{pd} is the same as t_{PLH} and t_{PHL}.

[3] C_{PD} is used to determine the dynamic power dissipation (P_D in µW). $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma(C_L \times V_{CC}^2 \times f_o)$ 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; $\Sigma(C_L \times V_{CC}^2 \times f_o)$ = sum of outputs.

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11.1. Waveforms and test circuit



Measurement points are given in Table 10.

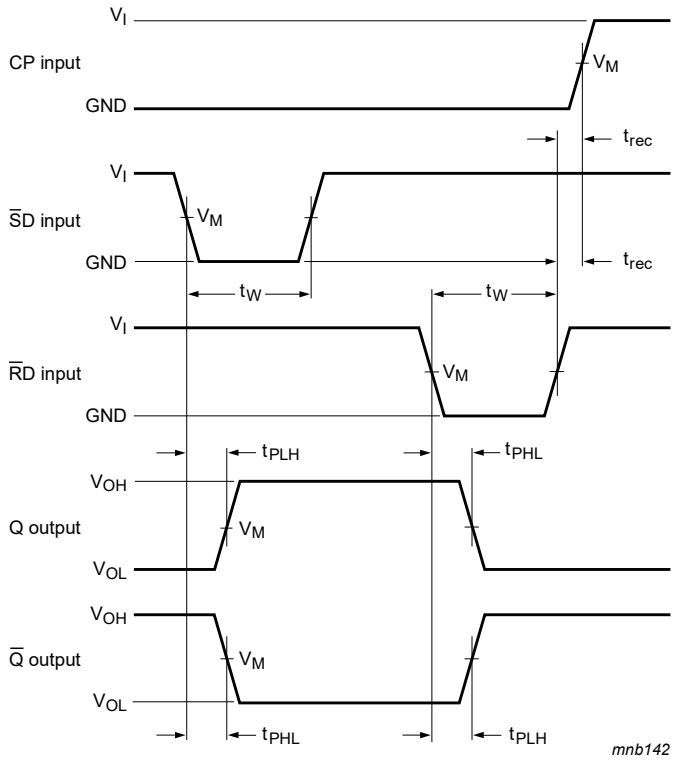
The shaded areas indicate when the input is permitted to change for predictable output performance.

V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig. 4. The clock input (CP) to output (Q, $\overline{Q}$) propagation delays and pulse width, D to CP set-up, CP to D hold times and the maximum frequency

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Measurement points are given in Table 10.

V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

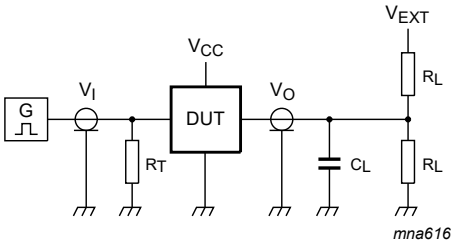
Fig. 5. The set ($\overline{SD}$) and reset ($\overline{RD}$) input to output (Q, $\overline{Q}$) propagation delays, pulse widths and the $\overline{RD}$ to CP recovery time

Table 10. Measurement points

Supply voltage	Input	Output
V_{CC}	V_M	V_M
1.65 V to 1.95 V	0.5 × V_{CC}	0.5 × V_{CC}
2.3 V to 2.7 V	0.5 × V_{CC}	0.5 × V_{CC}
2.7 V	1.5 V	1.5 V
3.0 V to 3.6 V	1.5 V	1.5 V
4.5 V to 5.5 V	0.5 × V_{CC}	0.5 × V_{CC}

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Test data is given in Table 11.

Definitions for test circuit:

R_L = Load resistance.

C_L = Load capacitance including jig and probe capacitance.

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

V_{EXT} = External voltage for measuring switching times.

Fig. 6. Test circuit for measuring switching times

Table 11. Test data

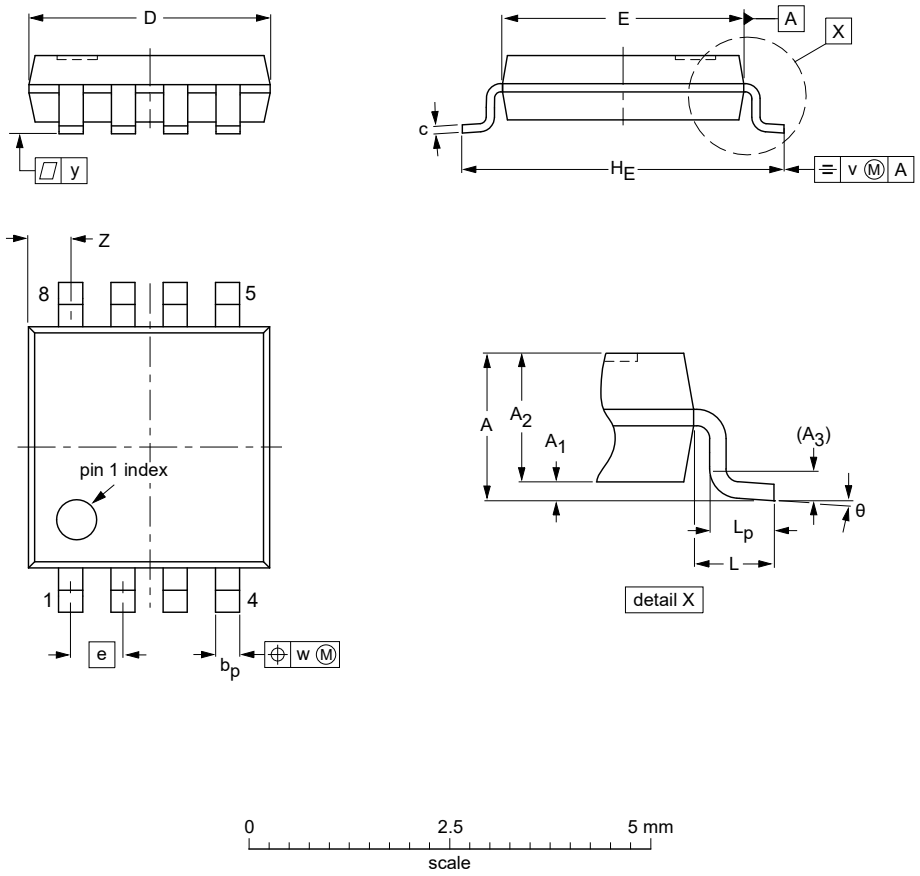
Supply voltage	Input		Load		V_{EXT}		
V_{CC}	V_I	t_r, t_f	C_L	R_L	t_{PLH}, t_{PHL}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
1.65 V to 1.95 V	V_{CC}	≤ 2.0 ns	30 pF	1 kΩ	open	GND	2 × V_{CC}
2.3 V to 2.7 V	V_{CC}	≤ 2.0 ns	30 pF	500 Ω	open	GND	2 × V_{CC}
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6 V
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6 V
4.5 V to 5.5 V	V_{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	2 × V_{CC}

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12. Package outline

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



DIMENSIONS (mm are the original dimensions)

UNIT	A max.	A_1	A_2	A_3	b_p	c	$D^{(1)}$	$E^{(1)}$	e	H_E	L	L_p	v	w	y	$Z^{(1)}$	θ
mm	1.1	0.15 0.00	0.95 0.75	0.25	0.38 0.22	0.18 0.08	3.1 2.9	3.1 2.9	0.65	4.1 3.9	0.5	0.47 0.33	0.2	0.13	0.1	0.70 0.35	8° 0°

Note

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

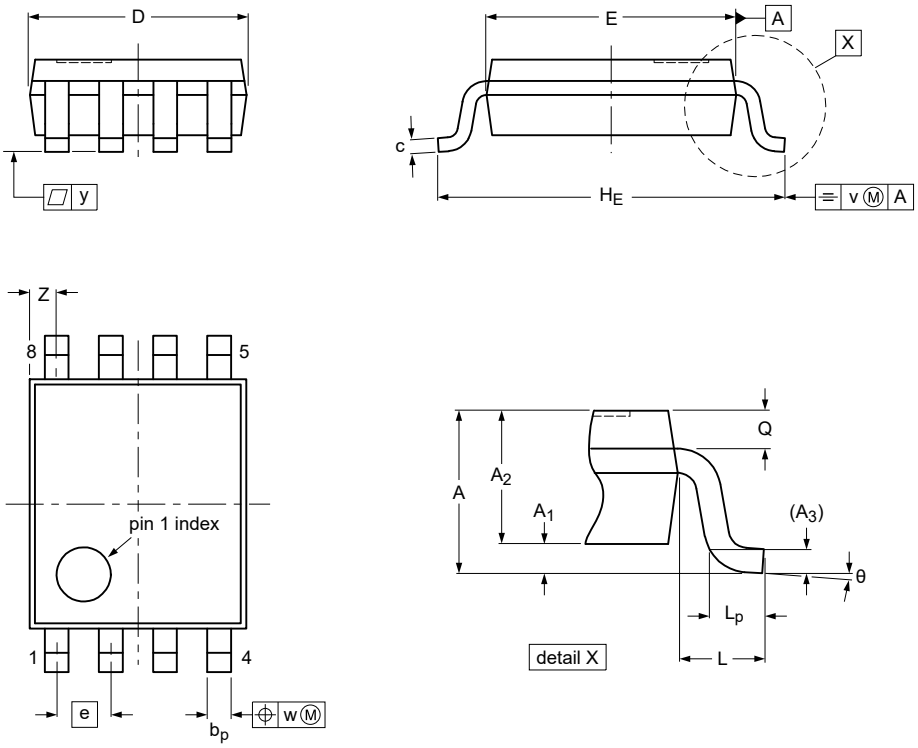
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT505-2		- - -				02-01-16

Fig. 7. Package outline SOT505-2 (TSSOP8)

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VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm **SOT765-1**



Dimensions (mm are the original dimensions)

Unit		A max.	A_1	A_2	A_3	b_p	c	$D^{(1)}$	$E^{(2)}$	e	H_E	L	L_p	Q	v	w	y	$Z^{(1)}$	θ
mm	max	1	0.15	0.85	0.12	0.27	0.23	2.1	2.4	0.5	3.2	0.4	0.40	0.21	0.2	0.08	0.1	0.4	8°
	nom																		
	min		0.00	0.60		0.17	0.08	1.9	2.2		3.0		0.15	0.19				0.1	0°

Note
1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
2. Plastic or metal protrusions of 0.25 mm maximum per side are not included.

sot765-1_po

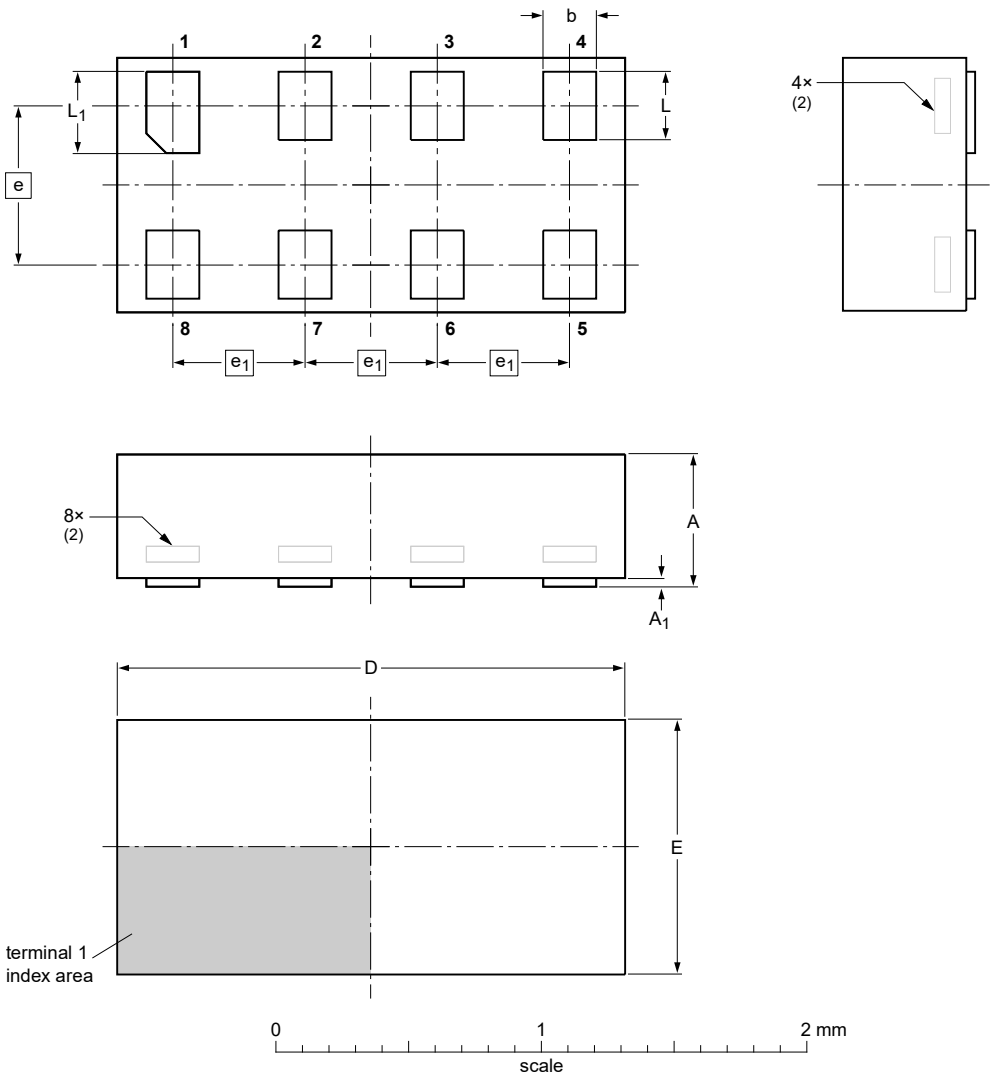
Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT765-1		MO-187				~~07-06-02~~ 16-05-31

Fig. 8. Package outline SOT765-1 (VSSOP8)

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XSON8: plastic extremely thin small outline package; no leads; 8 terminals; body 1 x 1.95 x 0.5 mm **SOT833-1**



DIMENSIONS (mm are the original dimensions)

UNIT	A(1) max	A_1 max	b	D	E	e	e_1	L	L_1
mm	0.5	0.04	0.25 0.17	2.0 1.9	1.05 0.95	0.6	0.5	0.35 0.27	0.40 0.32

Notes

1. Including plating thickness.
2. Can be visible in some manufacturing processes.

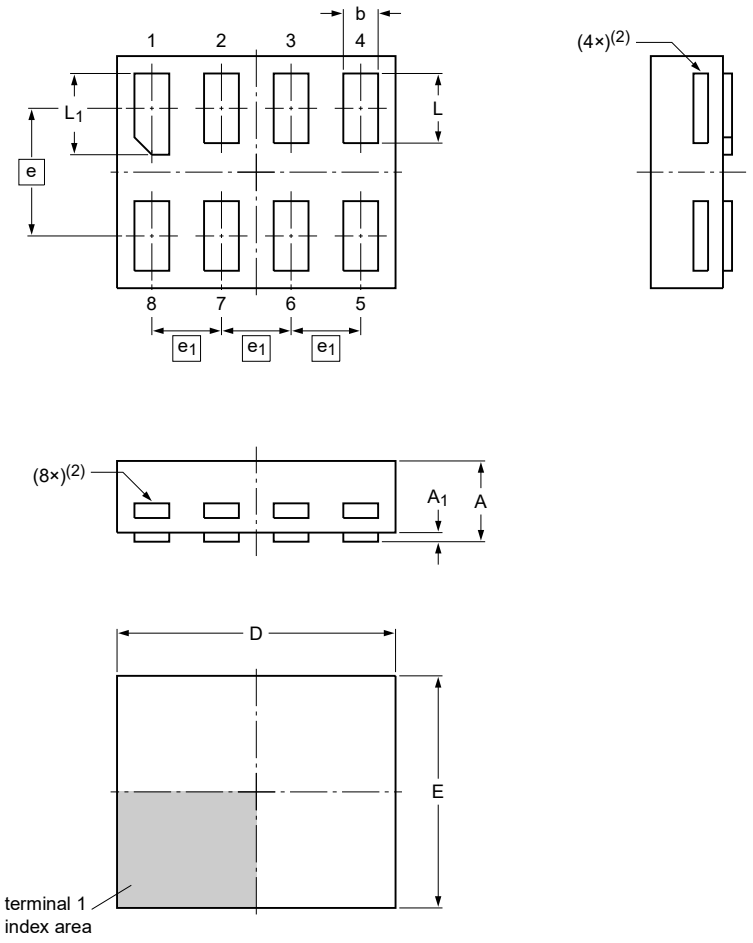
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT833-1	- - -	MO-252	- - -			~~07-11-14~~ 07-12-07

Fig. 9. Package outline SOT833-1 (XSON8)

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XSON8: extremely thin small outline package; no leads;
8 terminals; body 1.2 x 1.0 x 0.35 mm **SOT1116**



Dimensions

Unit		A(1)	A1	b	D	E	e	e1	L	L1
mm	max	0.35	0.04	0.20	1.25	1.05			0.35	0.40
	nom			0.15	1.20	1.00	0.55	0.3	0.30	0.35
	min			0.12	1.15	0.95			0.27	0.32

Note
1. Including plating thickness.
2. Visible depending upon used manufacturing technology.

sot1116_po

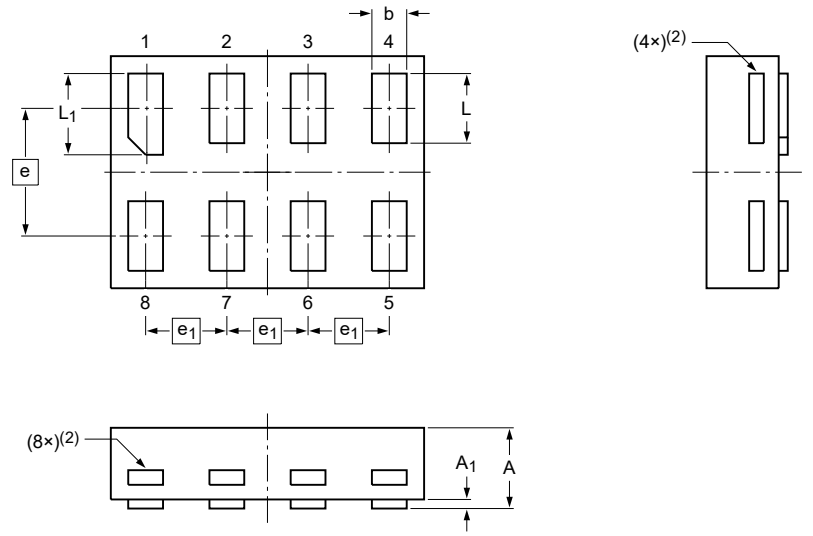
Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT1116						~~10-04-02~~ 10-04-07

Fig. 10. Package outline SOT1116 (XSON8)

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XSON8: extremely thin small outline package; no leads; 8 terminals; body 1.35 x 1.0 x 0.35 mm **SOT1203**



Dimensions

Unit		$A^{(1)}$	A_1	b	D	E	e	e_1	L	L_1
mm	max	0.35	0.04	0.20	1.40	1.05			0.35	0.40
	nom			0.15	1.35	1.00	0.55	0.35	0.30	0.35
	min			0.12	1.30	0.95			0.27	0.32

Note
1. Including plating thickness.
2. Visible depending upon used manufacturing technology.

sot1203_po

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT1203						~~10-04-02~~ 10-04-06

Fig. 11. Package outline SOT1203 (XSON8)

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13. Abbreviations

Table 12. Abbreviations

Acronym	Description
ANSI	American National Standards Institute
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
ESDA	ElectroStatic Discharge Association
HBM	Human Body Model
JEDEC	Joint Electron Device Engineering Council
TTL	Transistor-Transistor Logic

14. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC1G74 v.18	20250922	Product data sheet	-	74LVC1G74 v.17
Modifications:	• Updates made to Table 4.			
74LVC1G74 v.17	20240809	Product data sheet	-	74LVC1G74 v.16
Modifications:	• Type number 74LVC1G74GF (SOT1089/XSON8) removed.			
74LVC1G74 v.16	20230818	Product data sheet	-	74LVC1G74 v.15
Modifications:	• Section 2: ESD specification updated according to the latest JEDEC standard.			
74LVC1G74 v.15	20210920	Product data sheet	-	74LVC1G74 v.14
Modifications:	• Section 1 and Section 2 updated. • Type number 74LVC1G74GM (SOT902-2/XQFN8) removed. • Section 8: P_{tot} total power dissipation and derating values updated.			
74LVC1G74 v.14	20181227	Product data sheet	-	74LVC1G74 v.13
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. • Type number 74LVC1G74GD (SOT996-2) removed.			
74LVC1G74 v.13	20161205	Product data sheet	-	74LVC1G74 v.12
Modifications:	• Table 8: The maximum limits for leakage current and supply current have changed.			
74LVC1G74 v.12	20130402	Product data sheet	-	74LVC1G74 v.11
Modifications:	• For type number 74LVC1G74GD XSON8U has changed to XSON8.			
74LVC1G74 v.11	20120604	Product data sheet	-	74LVC1G74 v.10
Modifications:	• For type number 74LVC1G74GM the SOT code has changed to SOT902-2.			
74LVC1G74 v.10	20111202	Product data sheet	-	74LVC1G74 v.9
Modifications:	• Legal pages updated.			
74LVC1G74 v.9	20100805	Product data sheet	-	74LVC1G74 v.8
74LVC1G74 v.8	20091203	Product data sheet	-	74LVC1G74 v.7
74LVC1G74 v.7	20080626	Product data sheet	-	74LVC1G74 v.6
74LVC1G74 v.6	20080219	Product data sheet	-	74LVC1G74 v.5

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Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC1G74 v.5	20070809	Product data sheet	-	74LVC1G74 v.4
74LVC1G74 v.4	20061207	Product data sheet	-	74LVC1G74 v.3

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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.

[1] Please consult the most recently issued document before initiating or completing a design.
[2] The term 'short data sheet' is explained in section "Definitions".
[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the internet at https://www.nexperia.com.

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