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HEF4794B-Q100

8-stage shift-and-store register LED driver

Rev. 1 — 7 August 2012

Product data sheet

1. General description

The HEF4794B-Q100 is an 8-stage serial shift register. It has a storage latch associated with each stage for strobing data from the serial input (D) to the parallel LED driver outputs (QP0 to QP7). Data is shifted on the positive-going clock (CP) transitions. The data in each shift register stage is transferred to the storage register when the strobe input (STR) is HIGH. Data in the storage register appears at the outputs whenever the output enable input (OE) signal is HIGH.

Two serial outputs (QS1 and QS2) are available for cascading a number of HEF4794B-Q100 devices. Serial data is available at QS1 on positive-going clock edges to allow high-speed operation in cascaded systems with a fast clock rise time. The same serial data is available at QS2 on the next negative going clock edge. This is used for cascading HEF4794B-Q100 devices when the clock has a slow rise time.

It operates over a recommended V_{DD} power supply range of 3 V to 15 V referenced to V_{SS} (usually ground). Connect unused inputs to V_{DD} , V_{SS} , or another input.

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 $+85^{\circ}\text{C}$ and from -40°C to $+125^{\circ}\text{C}$
- Fully static operation
- 5 V, 10 V, and 15 V parametric ratings
- Standardized symmetrical output characteristics
- ESD protection:
 - ◆ MIL-STD-883C, method 3015 exceeds 2000 V
 - ◆ HBM JESD22-A114F exceeds 2000 V
 - ◆ MM JESD22-A115-A exceeds 200 V ($C = 200\text{ pF}$, $R = 0\ \Omega$)
- Complies with JEDEC standard JESD 13-B

3. Ordering information

Table 1. Ordering information

All types operate from -40°C to $+125^{\circ}\text{C}$.

Type number	Package		
	Name	Description	Version
HEF4794BT-Q100	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1



4. Functional diagram

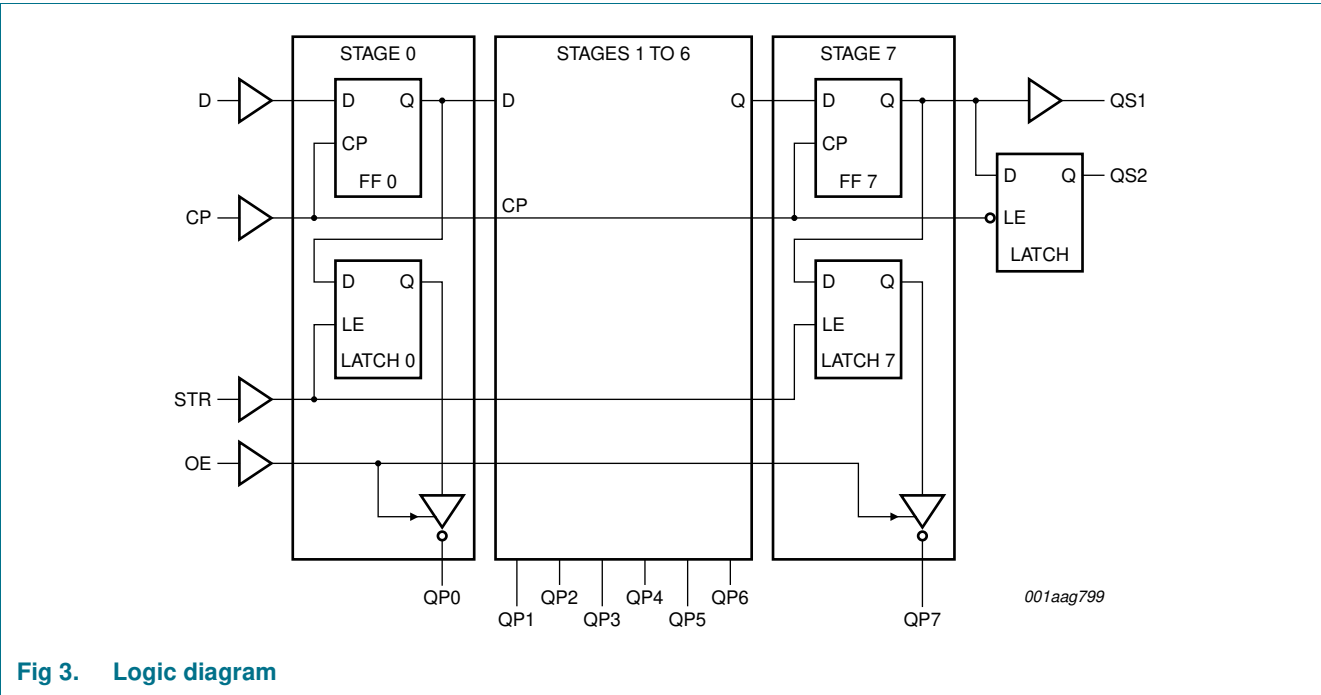
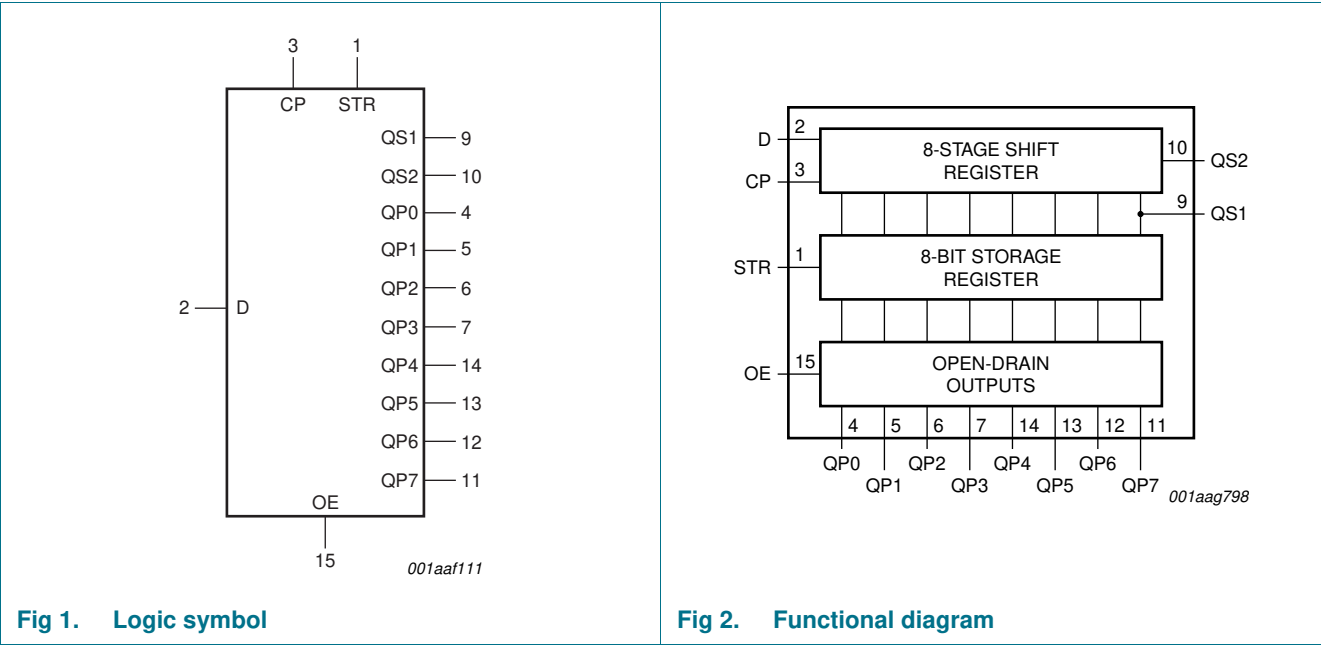


Fig 3. Logic diagram

5. Pinning information

5.1 Pinning

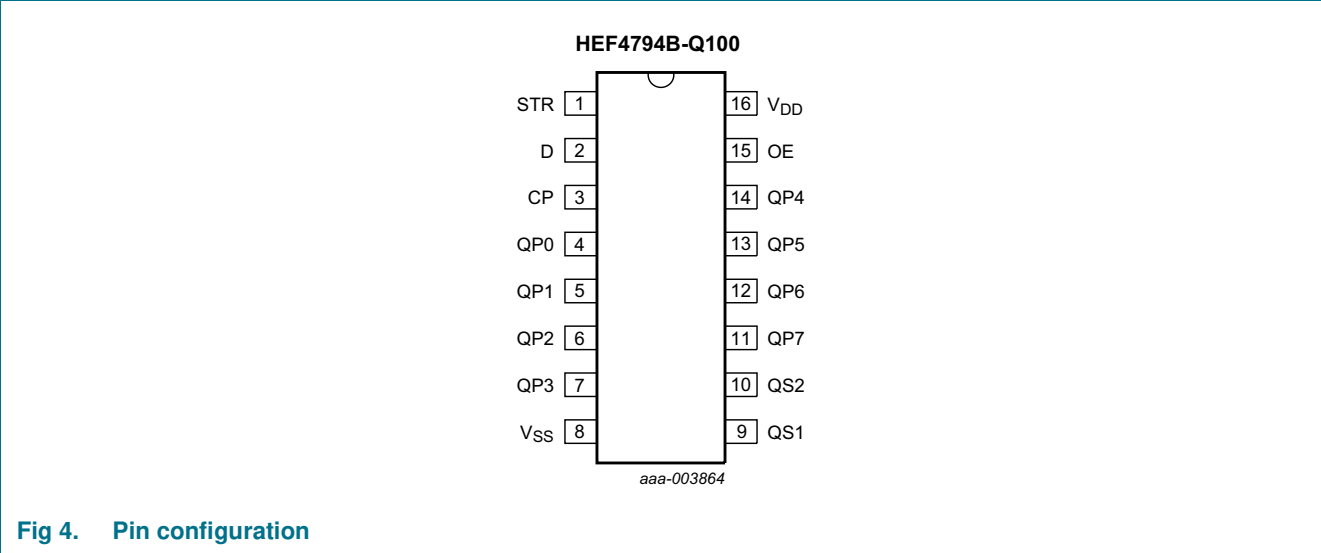


Fig 4. Pin configuration

5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
D	2	serial input
QP0 to QP7	4, 5, 6, 7, 14, 13, 12, 11	parallel output
QS1	9	serial output
QS2	10	serial output
CP	3	clock input
STR	1	strobe input
OE	15	output enable input
VDD	16	supply voltage
VSS	8	ground (0 V)

6. Functional description

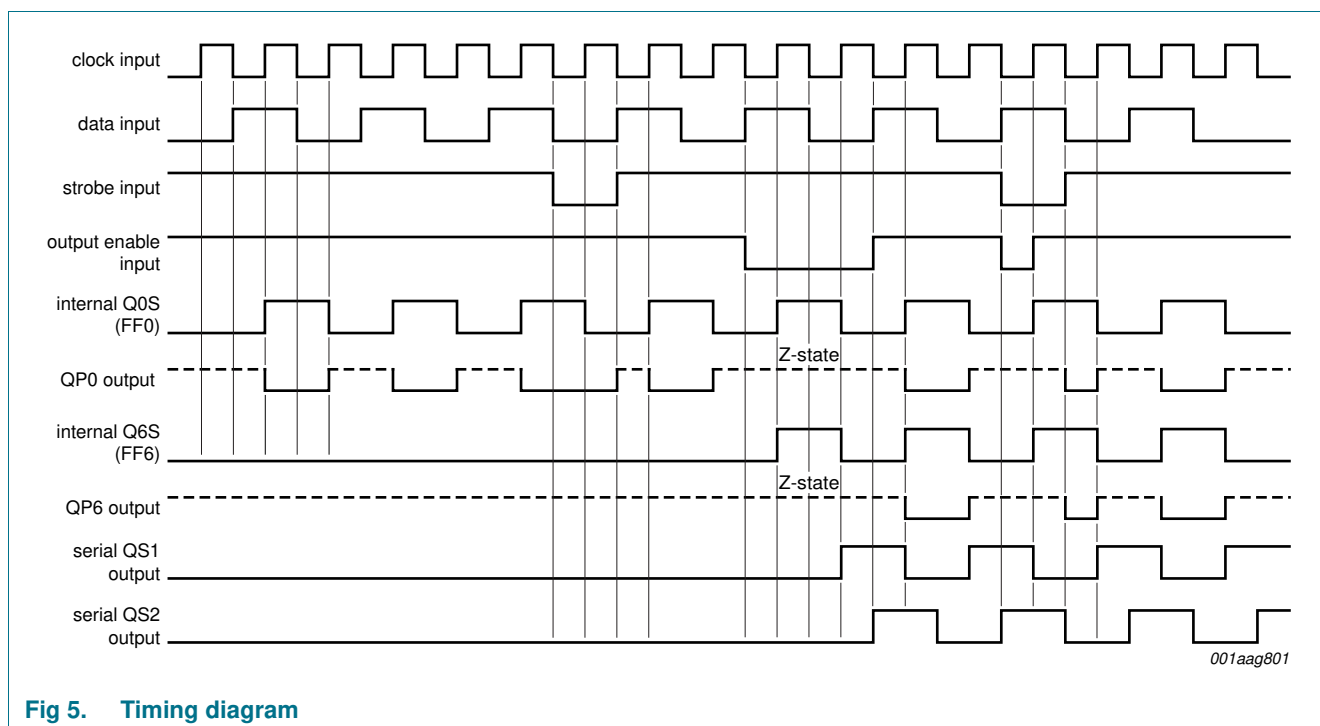
Table 3. Function table^[1]

Input				Parallel output		Serial output	
CP	OE	STR	D	QP0	QPn	QS1 ^[2]	QS2 ^[3]
↑	L	X	X	Z	Z	Q6S	no change
↓	L	X	X	Z	Z	n.c.	Q7S
↑	H	L	X	no change	no change	Q6S	no change
↑	H	H	L	Z	QPn – 1	Q6S	no change
↑	H	H	H	L	QPn – 1	Q6S	no change
↓	H	H	H	no change	no change	no change	Q7S

[1] H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state;
 ↑ = LOW-to-HIGH clock transition; ↓ = HIGH-to-LOW clock transition.

[2] Q6S = the data in register stage 6 before the LOW to HIGH clock transition.

[3] Q7S = the data in register stage 7 before the HIGH to LOW clock transition.



7. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions	Min	Max	Unit
V_{DD}	supply voltage		-0.5	+18	V
I_{IK}	input clamping current	$V_I < -0.5\text{ V}$ or $V_I > V_{DD} + 0.5\text{ V}$	-	± 10	mA
V_I	input voltage		-0.5	$V_{DD} + 0.5$	V
I_{OK}	output clamping current	QSn outputs; $V_O < -0.5\text{ V}$ or $V_O > V_{DD} + 0.5\text{ V}$	-	± 10	mA
		QPn outputs; $V_O < -0.5\text{ V}$	-	40	mA
I_I	input leakage current		-	± 10	mA
I_O	output current	QSn outputs	-	± 10	mA
		QPn outputs	-	40	mA
T_{stg}	storage temperature		-65	+150	°C
T_{amb}	ambient temperature		-40	+125	°C
P_{tot}	total power dissipation	$T_{amb} = -40\text{ °C to }+125\text{ °C}$	[1] -	500	mW
P	power dissipation	per output	-	100	mW

[1] For SO16 package: P_{tot} derates linearly with 8 mW/K above 70 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V_{DD}	supply voltage		3	15	V
V_I	input voltage		0	V_{DD}	V
T_{amb}	ambient temperature	in free air	-40	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate	$V_{DD} = 5\text{ V}$	-	3.75	$\mu\text{s/V}$
		$V_{DD} = 10\text{ V}$	-	0.5	$\mu\text{s/V}$
		$V_{DD} = 15\text{ V}$	-	0.08	$\mu\text{s/V}$

9. Static characteristics

Table 6. Static characteristics

$V_{SS} = 0\text{ V}$; $V_I = V_{SS}$ or V_{DD} ; unless otherwise specified.

Symbol	Parameter	Conditions	V_{DD}	$T_{amb} = -40\text{ °C}$		$T_{amb} = 25\text{ °C}$		$T_{amb} = 85\text{ °C}$		$T_{amb} = 125\text{ °C}$		Unit
				Min	Max	Min	Max	Min	Max	Min	Max	
V_{IH}	HIGH-level input voltage	$ I_O < 1\text{ }\mu\text{A}$	5 V	3.5	-	3.5	-	3.5	-	3.5	-	V
			10 V	7.0	-	7.0	-	7.0	-	7.0	-	V
			15 V	11.0	-	11.0	-	11.0	-	11.0	-	V
V_{IL}	LOW-level input voltage	$ I_O < 1\text{ }\mu\text{A}$	5 V	-	1.5	-	1.5	-	1.5	-	1.5	V
			10 V	-	3.0	-	3.0	-	3.0	-	3.0	V
			15 V	-	4.0	-	4.0	-	4.0	-	4.0	V
V_{OH}	HIGH-level output voltage	QSn outputs; $ I_O < 1\text{ }\mu\text{A}$	5 V	4.95	-	4.95	-	4.95	-	4.95	-	V
			10 V	9.95	-	9.95	-	9.95	-	9.95	-	V
			15 V	14.95	-	14.95	-	14.95	-	14.95	-	V
V_{OL}	LOW-level output voltage	QSn outputs; $ I_O < 1\text{ }\mu\text{A}$	5 V	-	0.05	-	0.05	-	0.05	-	0.05	V
			10 V	-	0.05	-	0.05	-	0.05	-	0.05	V
			15 V	-	0.05	-	0.05	-	0.05	-	0.05	V
		QPn outputs; $ I_O < 20\text{ mA}$	5 V	-	0.75	-	0.75	-	1.5	-	1.5	V
			10 V	-	0.75	-	0.75	-	1.5	-	1.5	V
			15 V	-	0.75	-	0.75	-	1.5	-	1.5	V
I_{OH}	HIGH-level output current	QSn outputs										
		$V_O = 2.5\text{ V}$	5 V	-	-1.7	-	-1.4	-	-1.1	-	-1.1	mA
		$V_O = 4.6\text{ V}$	5 V	-	-0.64	-	-0.5	-	-0.36	-	-0.36	mA
		$V_O = 9.5\text{ V}$	10 V	-	-1.6	-	-1.3	-	-0.9	-	-0.9	mA
		$V_O = 13.5\text{ V}$	15 V	-	-4.2	-	-3.4	-	-2.4	-	-2.4	mA
I_{OL}	LOW-level output current	QSn outputs										
		$V_O = 0.4\text{ V}$	5 V	0.64	-	0.5	-	0.36	-	0.36	-	mA
		$V_O = 0.5\text{ V}$	10 V	1.6	-	1.3	-	0.9	-	0.9	-	mA
		$V_O = 1.5\text{ V}$	15 V	4.2	-	3.4	-	2.4	-	2.4	-	mA
I_I	input leakage current		15 V	-	± 0.1	-	± 0.1	-	± 1.0	-	± 1.0	μA
I_{OZ}	OFF-state output current	QPn output is HIGH; $V_O = 15\text{ V}$	5 V	-	2	-	2	-	15	-	15	μA
			10 V	-	2	-	2	-	15	-	15	μA
			15 V	-	2	-	2	-	15	-	15	μA
I_{DD}	supply current	$I_O = 0\text{ A}$	5 V	-	5	-	5	-	150	-	150	μA
			10 V	-	10	-	10	-	300	-	300	μA
			15 V	-	20	-	20	-	600	-	600	μA
C_I	input capacitance		-	-	-	-	-	7.5	-	-	-	pF

10. Dynamic characteristics

Table 7. Dynamic characteristics

$V_{SS} = 0\text{ V}$; $T_{amb} = 25\text{ °C}$ unless otherwise specified. For test circuit, see [Figure 10](#).

Symbol	Parameter	Conditions	V_{DD}	Extrapolation formula	Min	Typ	Max	Unit
t_{PHL}	HIGH to LOW propagation delay	CP to QS1; see Figure 6	5 V	[1] $132\text{ ns} + (0.55\text{ ns/pF})C_L$	-	160	320	ns
			10 V	$53\text{ ns} + (0.23\text{ ns/pF})C_L$	-	65	130	ns
			15 V	$37\text{ ns} + (0.16\text{ ns/pF})C_L$	-	45	90	ns
		CP to QS2; see Figure 6	5 V	$92\text{ ns} + (0.55\text{ ns/pF})C_L$	-	120	240	ns
			10 V	$39\text{ ns} + (0.23\text{ ns/pF})C_L$	-	50	100	ns
			15 V	$32\text{ ns} + (0.16\text{ ns/pF})C_L$	-	40	80	ns
t_{PLH}	LOW to HIGH propagation delay	CP to QS1; see Figure 6	5 V	[1] $102\text{ ns} + (0.55\text{ ns/pF})C_L$	-	130	260	ns
			10 V	$44\text{ ns} + (0.23\text{ ns/pF})C_L$	-	55	110	ns
			15 V	$32\text{ ns} + (0.16\text{ ns/pF})C_L$	-	40	80	ns
		CP to QS2; see Figure 6	5 V	$102\text{ ns} + (0.55\text{ ns/pF})C_L$	-	130	260	ns
			10 V	$49\text{ ns} + (0.23\text{ ns/pF})C_L$	-	60	120	ns
			15 V	$37\text{ ns} + (0.16\text{ ns/pF})C_L$	-	45	90	ns
t_{PZL}	OFF-state to LOW propagation delay	CP to QPn; see Figure 6	5 V		-	240	480	ns
			10 V		-	80	160	ns
			15 V		-	55	110	ns
		STR to QPn; see Figure 7	5 V		-	140	280	ns
			10 V		-	70	140	ns
			15 V		-	55	110	ns
t_{PLZ}	LOW to OFF-state propagation delay	CP to QPn; see Figure 6	5 V		-	170	340	ns
			10 V		-	75	150	ns
			15 V		-	60	120	ns
		STR to QPn; see Figure 7	5 V		-	100	200	ns
			10 V		-	40	100	ns
			15 V		-	35	70	ns
t_{en}	enable time	OE to QPn; see Figure 8	5 V	[2]	-	100	200	ns
			10 V		-	55	110	ns
			15 V		-	50	100	ns
t_{dis}	disable time	OE to QPn; see Figure 8	5 V	[2]	-	80	160	ns
			10 V		-	40	80	ns
			15 V		-	30	60	ns
t_t	transition time	QS1, QS2; see Figure 6	5 V	[1]	-	85	170	ns
			10 V	[3] $19\text{ ns} + (0.42\text{ ns/pF})C_L$	-	40	80	ns
			15 V	$16\text{ ns} + (0.28\text{ ns/pF})C_L$	-	30	60	ns

Table 7. Dynamic characteristics ...continued

$V_{SS} = 0$ V; $T_{amb} = 25$ °C unless otherwise specified. For test circuit, see [Figure 10](#).

Symbol	Parameter	Conditions	V_{DD}	Extrapolation formula	Min	Typ	Max	Unit
t_w	pulse width	CP; LOW and HIGH; see Figure 6	5 V		60	30	-	ns
			10 V		30	15	-	ns
			15 V		24	12	-	ns
		STR; HIGH; see Figure 7	5 V		80	40	-	ns
			10 V		60	30	-	ns
			15 V		24	12	-	ns
t_{su}	set-up time	D to CP; see Figure 9	5 V		60	30	-	ns
			10 V		20	10	-	ns
			15 V		15	5	-	ns
t_h	hold time	D to CP; see Figure 9	5 V		+5	-15	-	ns
			10 V		20	5	-	ns
			15 V		20	5	-	ns
$f_{clk(max)}$	maximum clock frequency	CP; see Figure 6	5 V		5	10	-	MHz
			10 V		11	22	-	MHz
			15 V		14	28	-	MHz

[1] The typical values of the propagation delay and transition times are calculated from the extrapolation formulas shown (C_L in pF).

[2] t_{en} is the same as t_{pZL} and t_{dis} is the same as t_{pLZ}

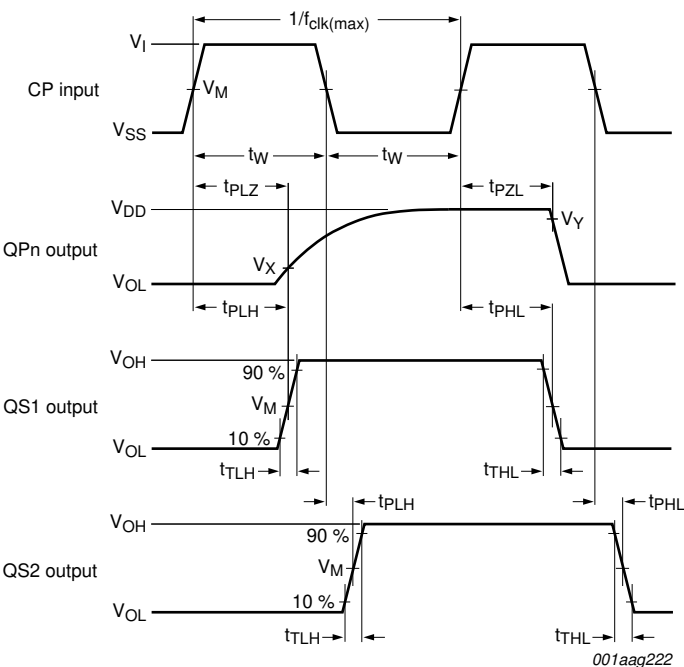
[3] t_t is the same as t_{TLH} and t_{THL}

Table 8. Dynamic power dissipation

P_D can be calculated from the formulas shown. $V_{SS} = 0$ V; $t_r = t_f \leq 20$ ns; $T_{amb} = 25$ °C.

Symbol	Parameter	V_{DD}	Typical formula	Where
P_D	dynamic power dissipation	5 V	$P_D = 1200 \times f_i + \Sigma(f_o \times C_L) \times V_{DD}^2 \mu W$	f_i = input frequency in MHz;
		10 V	$P_D = 5550 \times f_i + \Sigma(f_o \times C_L) \times V_{DD}^2 \mu W$	f_o = output frequency in MHz;
		15 V	$P_D = 15000 \times f_i + \Sigma(f_o \times C_L) \times V_{DD}^2 \mu W$	C_L = output load capacitance in pF; $\Sigma(f_o \times C_L)$ = sum of the outputs; V_{DD} = supply voltage in V.

11. Waveforms

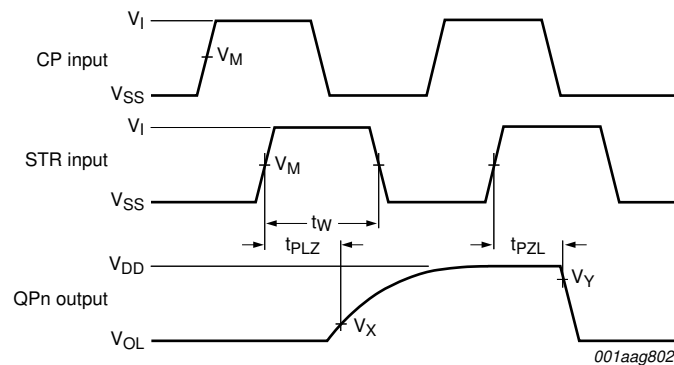


Parallel output measurement points are given in [Table 9](#).
 V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig 6. Propagation delay clock (CP) to output (QPn, QS1, QS2), clock pulse width and maximum clock frequency

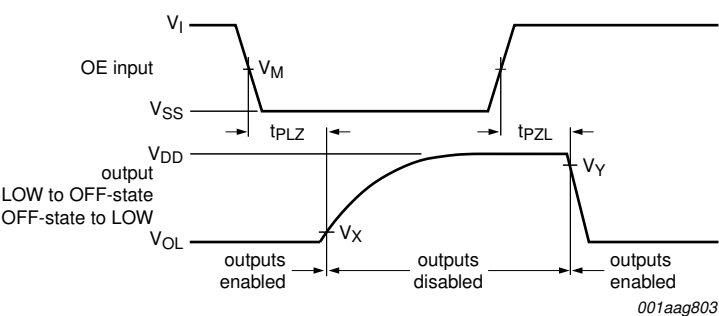
Table 9. Measurement points

Supply	Input	Output		
V_{DD}	V_M	V_M	V_X	V_Y
5 V to 15 V	$0.5V_{DD}$	$0.5V_{DD}$	$0.1V_O$	$0.9V_O$



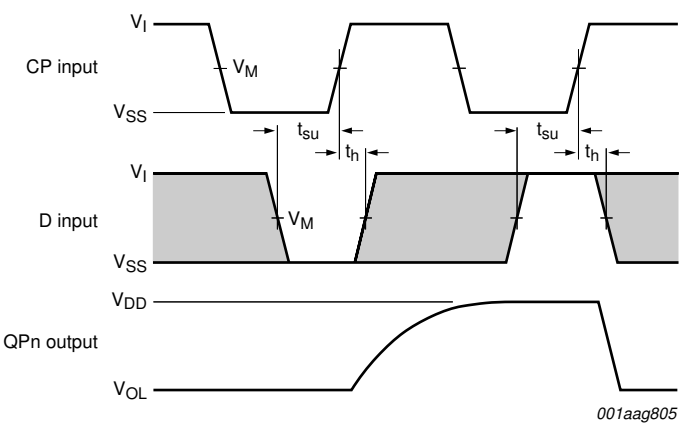
Measurement points are given in [Table 9](#).
 V_{OL} is the typical output voltage level that occurs with the output load.

Fig 7. Strobe (STR) to output (QPn) propagation delays and the strobe pulse width



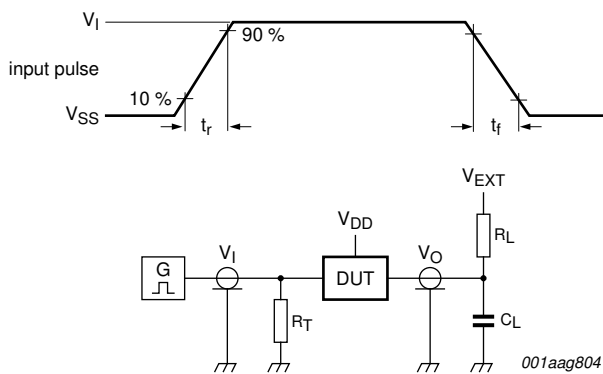
Measurement points are given in [Table 9](#).
 V_{OL} is the typical output voltage level that occurs with the output load.

Fig 8. Enable and disable times for input OE



Measurement points are given in [Table 9](#).
The shaded areas indicate when the input is permitted to change for predictable output performance.
 V_{OL} is the typical output voltage level that occurs with the output load.

Fig 9. Set-up and hold times for the data input (D)



Test data is given in [Table 10](#).
Definitions for test circuit:
DUT - Device Under Test.
 R_L = Load resistance.
 C_L = load capacitance.
 R_T = Termination resistance should be equal to output impedance of Z_o of the pulse generator.
 V_{EXT} = External voltage for measuring switching times.

Fig 10. Test circuit for measuring switching times

Table 10. Test data

Supply	Input		V_{EXT}		Load	
V_{DD}	V_I	t_r, t_f	t_{PLZ}, t_{PZL}	t_{PLH}, t_{PHL}	C_L	R_L
5 V to 15 V	V_{DD}	≤ 20 ns	V_{DD}	open	50 pF	1 k Ω

12. Application information

Application example: serial-to-parallel data converting LED drivers.

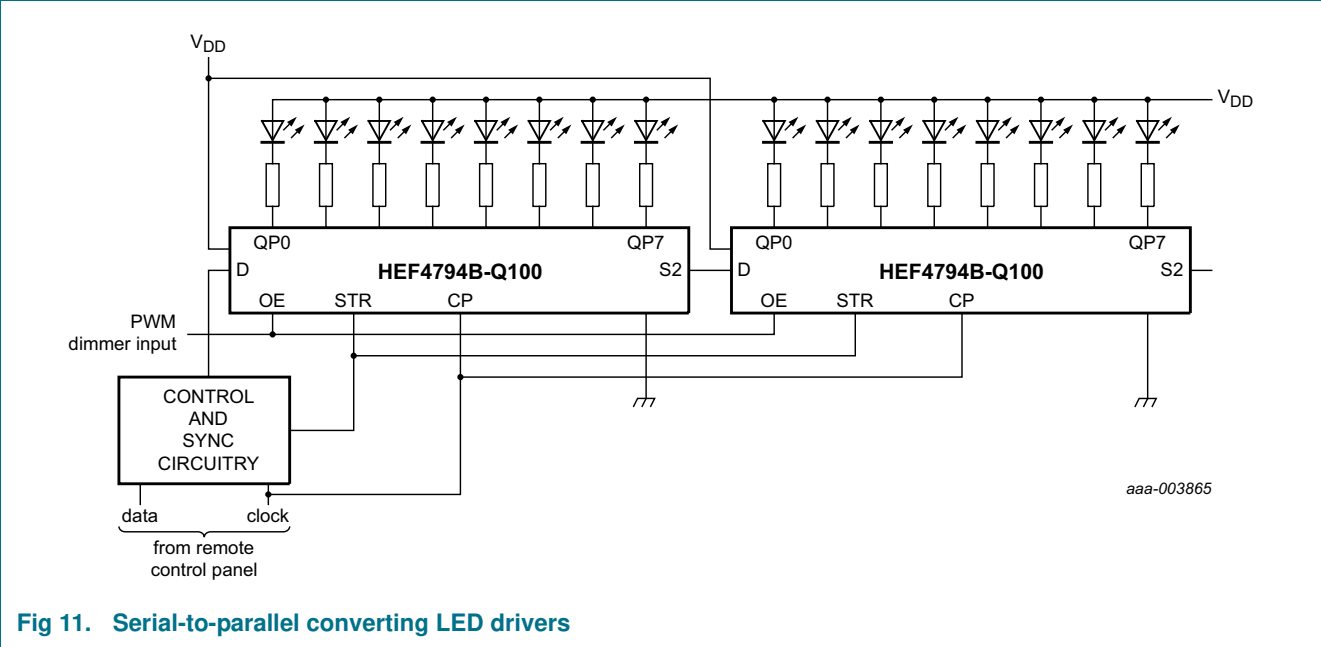


Fig 11. Serial-to-parallel converting LED drivers

13. Package outline

SO16: plastic small outline package; 16 leads; body width 3.9 mm SOT109-1

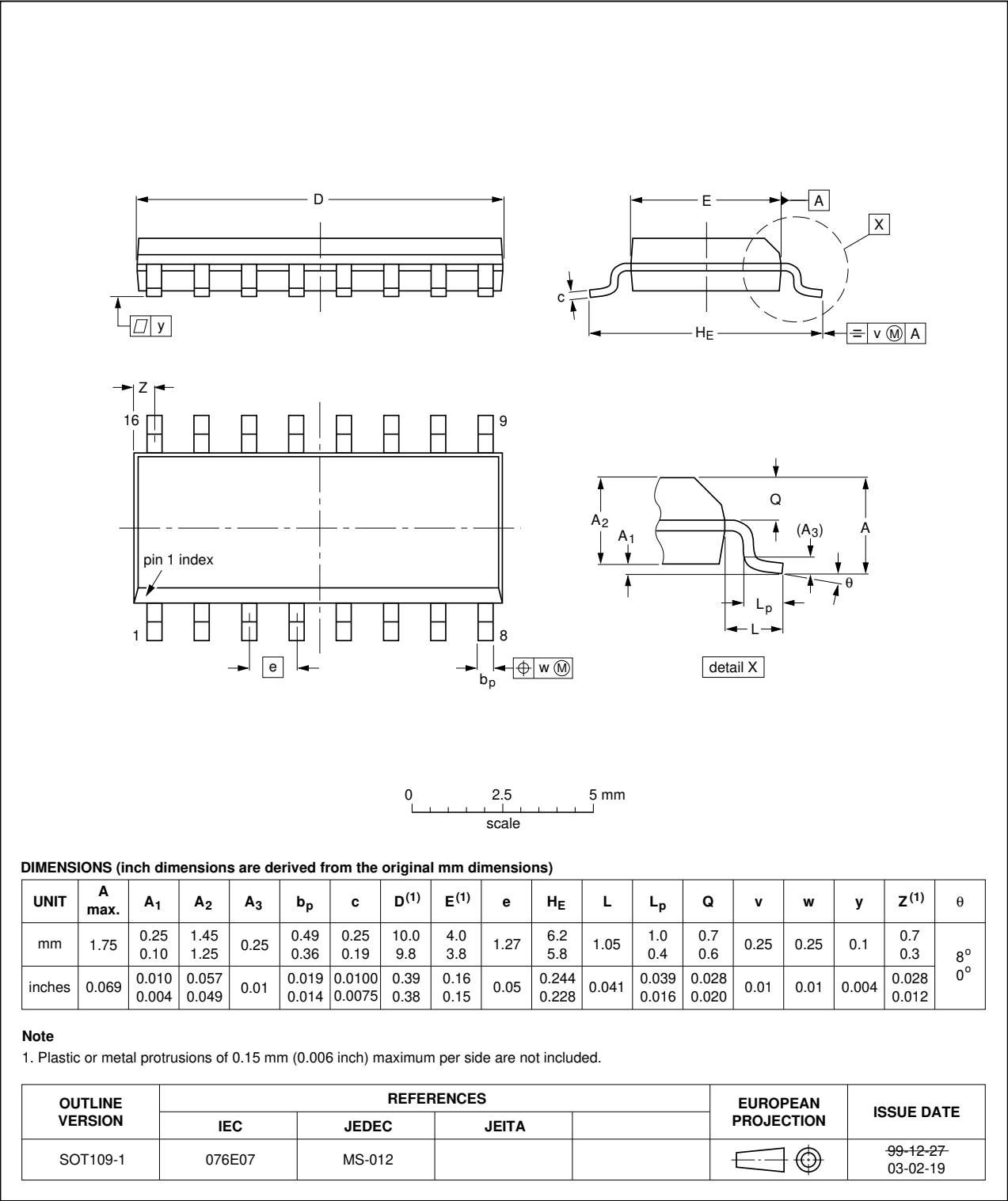


Fig 12. Package outline SOT109-1 (SO16)

14. Abbreviations

Table 11. Abbreviations

Acronym	Description
HBM	Human Body Model
ESD	ElectroStatic Discharge
MM	Machine Model
MIL	Military

15. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
HEF4794B_Q100 v.1	20120807	Product data sheet	-	-

16. Legal information

16.1 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 URL <http://www.nxp.com>.

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Date of release: 7 August 2012

Document identifier: HEF4794B_Q100