



HV5122 / HV5222

32-Channel, Serial-to-Parallel Converter with Open-Drain Outputs

Features

- Processed with High Voltage CMOS technology
- Output voltages to 225V using a ramped supply voltage
- SINK current minimum 100mA
- Shift register speed 8.0MHz
- Strobe and enable inputs
- CMOS compatible inputs
- Forward and reverse shifting options

Description

HV5122 / HV5222 are low-voltage serial to high-voltage parallel converters with open-drain outputs. These devices are primarily designed for use as a driver for AC electroluminescent displays. HV5122 / HV5222 can also be used in any application requiring multiple high-voltage, current-sinking output capabilities such as driving inkjet and electrostatic print heads, plasma panels, vacuum fluorescent, or large matrix LCD displays.

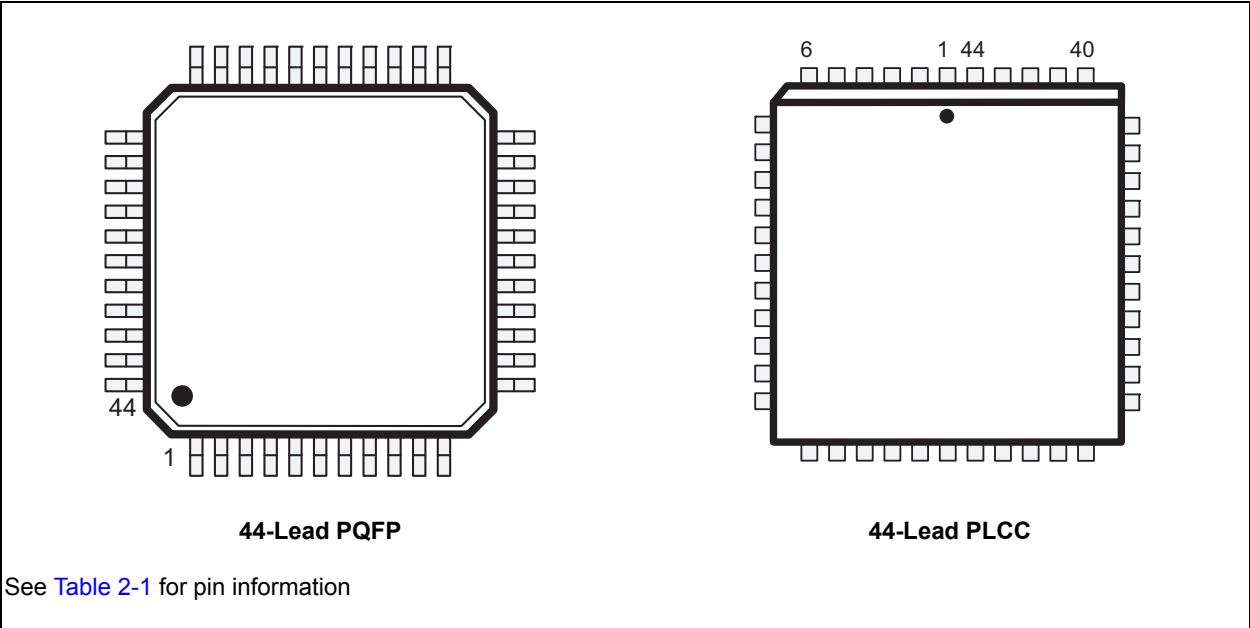
These devices consist of a 32-bit shift register and control logic to perform the Output Enable and all-on functions. Data is shifted through the shift register on the high-to-low transition of the clock. HV5122 shifts in the counter-clockwise direction when viewed from the top of the package and HV5222 shifts in the clockwise direction.

For cascading devices, HV5122 / HV5222 provides a data output buffer that reflects the current status of the last bit of the shift register. Operation of the shift register is not affected by the OE (Output Enable) or the STR (Strobe) inputs.

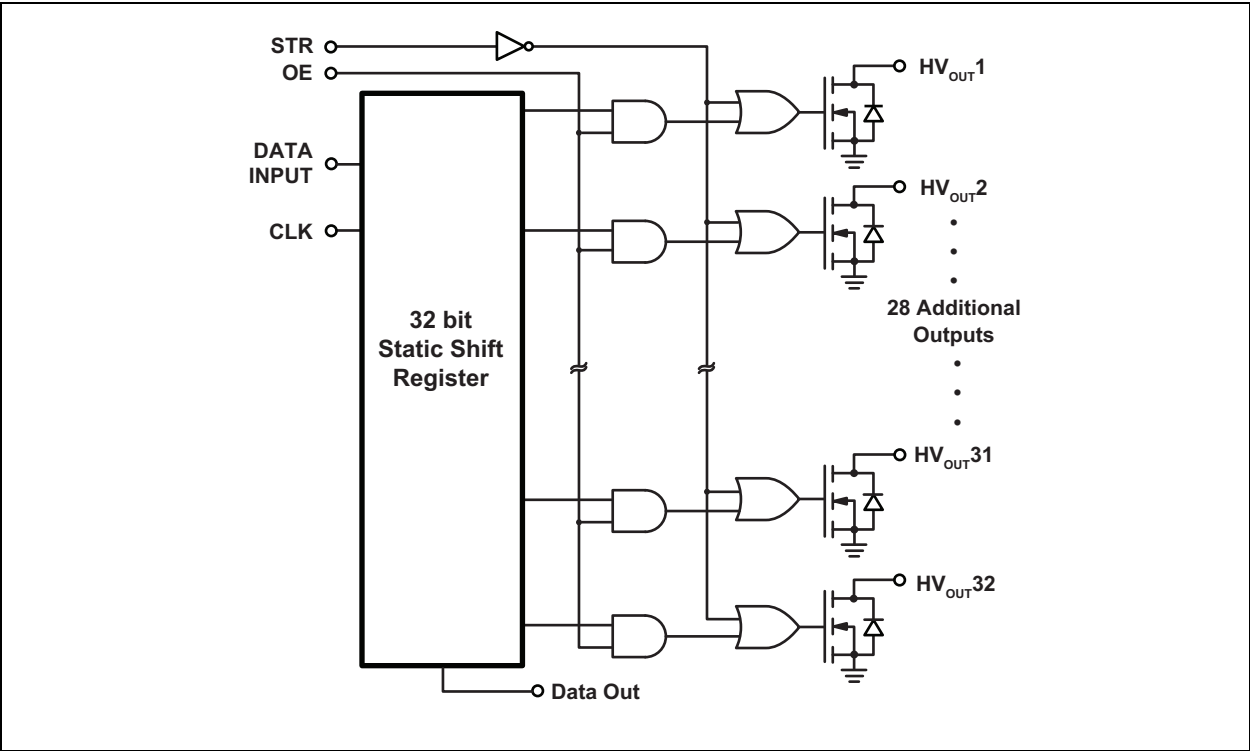
HV5122 / HV5222 are designed to be used in systems which either switch off the high voltage supply before changing the state of the high voltage outputs or which limit the current through each output.

HV5122 / HV5222

Package Type



Functional Block Diagram



1.0 ELECTRICAL CHARACTERISTICS

ABSOLUTE MAXIMUM RATINGS†

Supply voltage, V_{DD}	-0.5V to +15V
Supply voltage, V_{PP}	-0.5V to +250V
Logic input levels	-0.5V to $V_{DD}+0.5V$
Ground current ¹	1.5A
Continuous total power dissipation PQFP ²	1200mW
Continuous total power dissipation PLCC ²	1650mW
Operating temperature range	-40°C to +85°C
Storage temperature range	-65°C to +150°C

† **Notice:** Stresses above those listed under “Maximum Ratings” may cause permanent damage to the device. This is a stress rating only and functional operation of the device at those or any other conditions above those indicated in the operational listings of this specification is not implied. Exposure to maximum rating conditions for extended periods may affect device reliability.

1: Duty cycle is limited by the total power dissipated in the package.

2: For operation above 25°C ambient derate linearly to maximum operating temperature at 20mW/°C.

TABLE 1-1: ELECTRICAL CHARACTERISTICS

Electrical Specifications: Over recommended conditions unless otherwise specified					
Symbol	Parameter	Min	Max	Units	Conditions
DC Characteristics					
I_{DD}	V_{DD} supply current	-	15	mA	$f_{CLK}=8.0\text{MHz}$, $f_{DATA}=4.0\text{MHz}$
I_{DDQ}	Quiescent V_{DD} supply current	-	100	μA	$D_{IN}=0V$, all input logic pins = 0V, all outputs off
$I_{O(OFF)}$	Off-state output current	-	10	μA	All outputs high, all switches parallel
I_{IH}	High level logic input current	-	1.0	μA	$V_{IN}=V_{DD}$
I_{IL}	Low level logic input current	-	-1.0	μA	$V_{IL}=0$
V_{OH}	High level output data out	$V_{DD}-1.0V$	-	V	$I_{DOUT}=-100\mu\text{A}$
V_{OL}	Low level output voltage	HV _{OUT}	-	15	$I_{HVOUT}=+100\text{mA}$
		Data out	-	1.0	$I_{DOUT}=+100\mu\text{A}$
V_{OC}	HV _{OUT} clamp voltage	-	-1.5	V	$I_{OL}=-100\text{mA}$
AC Characteristics ($V_{DD}=12V$, $T_A=25^\circ\text{C}$)					
f_{CLK}	Clock frequency	-	8.0	MHz	
t_W	Clock width, high or low	62	-	ns	
t_{SU}	Data setup time before CLK falls	25	-	ns	
t_H	Data hold time after CLK falls	10	-	ns	
t_{ON}	Turn-on time, HV _{OUT} from strobe	-	500	ns	$R_L=2.0k\Omega$ to 200V
t_{DHL}	Data output delay after H to L CLK	-	100	ns	$C_L=15\text{pF}$
t_{DLH}	Data output delay after L to H CLK	-	100	ns	$C_L=15\text{pF}$

TABLE 1-2: TYPICAL THERMAL RESISTANCE

Package	θ_{ja}
44-Lead PQFP	51°C/W
44-Lead PLCC	37°C/W

HV5122 / HV5222

2.0 PIN DESCRIPTION

The locations of the pins are listed in [Package Type](#).

TABLE 2-1: PIN DESCRIPTION PQFP

Pin #	HV5122	HV5222	Description
1	HV _{OUT} 11	HV _{OUT} 22	High voltage outputs.
2	HV _{OUT} 12	HV _{OUT} 21	
3	HV _{OUT} 13	HV _{OUT} 20	
4	HV _{OUT} 14	HV _{OUT} 19	
5	HV _{OUT} 15	HV _{OUT} 18	
6	HV _{OUT} 16	HV _{OUT} 17	
7	HV _{OUT} 17	HV _{OUT} 16	
8	HV _{OUT} 18	HV _{OUT} 15	
9	HV _{OUT} 19	HV _{OUT} 14	
10	HV _{OUT} 20	HV _{OUT} 13	
11	HV _{OUT} 21	HV _{OUT} 12	
12	HV _{OUT} 22	HV _{OUT} 11	
13	HV _{OUT} 23	HV _{OUT} 10	
14	HV _{OUT} 24	HV _{OUT} 9	
15	HV _{OUT} 25	HV _{OUT} 8	
16	HV _{OUT} 26	HV _{OUT} 7	
17	HV _{OUT} 27	HV _{OUT} 6	
18	HV _{OUT} 28	HV _{OUT} 5	
19	HV _{OUT} 29	HV _{OUT} 4	
20	HV _{OUT} 30	HV _{OUT} 3	
21	HV _{OUT} 31	HV _{OUT} 2	
22	HV _{OUT} 32	HV _{OUT} 1	
23	DATA OUT	DATA OUT	Data output for cascading to the data input of the next device.
24	N/C	N/C	No connect.
25			
26			
27			
28	OE	OE	Output enable input. When OE is LOW, all HV outputs are forced into a LOW state, regardless of data in each channel. When OE is HIGH, all HV outputs reflect data latched.
29	CLK	CLK	Data shift register clock. Input are shifted into the shift register on the positive edge of the clock.
30	GND	GND	Logic and high voltage ground.
31	VDD	VDD	Low voltage logic power rail.
32	STR	STR	Strobe.
33	DATA IN	DATA IN	Serial data input. Data needs to be present before each rising edge of the clock.
34	N/C	N/C	No connect.

TABLE 2-1: PIN DESCRIPTION PQFP (CONTINUED)

Pin #	HV5122	HV5222	Description
35	HV _{OUT} 1	HV _{OUT} 32	High voltage outputs.
36	HV _{OUT} 2	HV _{OUT} 31	
37	HV _{OUT} 3	HV _{OUT} 30	
38	HV _{OUT} 4	HV _{OUT} 29	
39	HV _{OUT} 5	HV _{OUT} 28	
40	HV _{OUT} 6	HV _{OUT} 27	
41	HV _{OUT} 7	HV _{OUT} 26	
42	HV _{OUT} 8	HV _{OUT} 25	
43	HV _{OUT} 9	HV _{OUT} 24	
44	HV _{OUT} 10	HV _{OUT} 23	

TABLE 2-2: PIN DESCRIPTION PLCC

Pin #	HV5122	HV5222	Description
1	HV _{OUT} 16	HV _{OUT} 17	High voltage outputs
2	HV _{OUT} 17	HV _{OUT} 16	
3	HV _{OUT} 18	HV _{OUT} 15	
4	HV _{OUT} 19	HV _{OUT} 14	
5	HV _{OUT} 20	HV _{OUT} 13	
6	HV _{OUT} 21	HV _{OUT} 12	
7	HV _{OUT} 22	HV _{OUT} 11	
8	HV _{OUT} 23	HV _{OUT} 10	
9	HV _{OUT} 24	HV _{OUT} 9	
10	HV _{OUT} 25	HV _{OUT} 8	
11	HV _{OUT} 26	HV _{OUT} 7	
12	HV _{OUT} 27	HV _{OUT} 6	
13	HV _{OUT} 28	HV _{OUT} 5	
14	HV _{OUT} 29	HV _{OUT} 4	
15	HV _{OUT} 30	HV _{OUT} 3	
16	HV _{OUT} 31	HV _{OUT} 2	
17	HV _{OUT} 32	HV _{OUT} 1	
18	DATA OUT	DATA OUT	Data output for cascading to the data input of the next device.
19	N/C	N/C	No connect.
20			
21			
22			
23	OE	OE	Output enable input. When OE is LOW, all HV outputs are forced into a LOW state, regardless of data in each channel. When OE is HIGH, all HV outputs reflect data latched.
24	CLK	CLK	Data shift register clock. Input are shifted into the shift register on the positive edge of the clock.
25	GND	GND	Logic and high voltage ground.
26	VDD	VDD	Low voltage logic power rail.
27	STR	STR	Strobe.

HV5122 / HV5222

TABLE 2-2: PIN DESCRIPTION PLCC (CONTINUED)

Pin #	HV5122	HV5222	Description
28	DATA IN	DATA IN	Serial data input. Data needs to be present before each rising edge of the clock.
29	N/C	N/C	No connect.
30	HV _{OUT} 1	HV _{OUT} 32	High voltage outputs.
31	HV _{OUT} 2	HV _{OUT} 31	
32	HV _{OUT} 3	HV _{OUT} 30	
33	HV _{OUT} 4	HV _{OUT} 29	
34	HV _{OUT} 5	HV _{OUT} 28	
35	HV _{OUT} 6	HV _{OUT} 27	
36	HV _{OUT} 7	HV _{OUT} 26	
37	HV _{OUT} 8	HV _{OUT} 25	
38	HV _{OUT} 9	HV _{OUT} 24	
39	HV _{OUT} 10	HV _{OUT} 23	
40	HV _{OUT} 11	HV _{OUT} 22	
41	HV _{OUT} 12	HV _{OUT} 21	
42	HV _{OUT} 13	HV _{OUT} 20	
43	HV _{OUT} 14	HV _{OUT} 19	
44	HV _{OUT} 15	HV _{OUT} 18	

3.0 FUNCTIONAL DESCRIPTION

Table 3-1 provides functional information about HV5122 / HV5222.

TABLE 3-1: FUNCTIONAL TABLE

Function	Inputs				Outputs				
	Data In	CLK	OE	STR	Shift Reg		HV Outputs		Data Out
					1	2...32	1	2...32	
All on	X	X	X	L	•	•...•	ON	ON...ON	•
All off	X	X	L	H	•	•...•	OFF	OFF...OFF	•
Load S/R	H/L	↓	L	H	H/L	Q1...Q31	OFF	OFF...OFF	Q32
Output Enable	X	H/L	H	H	H/L	•...•	ON/OFF	•...•	•

Note 1: H = high level, L = low level, X = irrelevant, ↓ = high-to-low transition

2: • = dependent on previous stage's state before the last CLK high-to-low transition

3.1 Power-Up and Recommended Operating Conditions

To power-up HV5122 / HV5222, perform the following power-up sequence:

1. Connect ground
2. Apply V_{DD}
3. Set all inputs to a known state

To power-down the device, reverse the steps above.

TABLE 3-2: RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Typ	Max	Units
V_{DD}	Logic voltage supply	10.8	12	13.2	V
HV_{OUT}	High voltage output	-0.3	-	225	V
V_{IH}	High-level input voltage	$V_{DD}-2.0$	-	V_{DD}	V
V_{IL}	Low-level input voltage	0	-	2.0	V
f_{CLK}	Clock frequency	-	-	8.0	MHz
T_A	Operating free-air temperature	-40	-	+85	°C

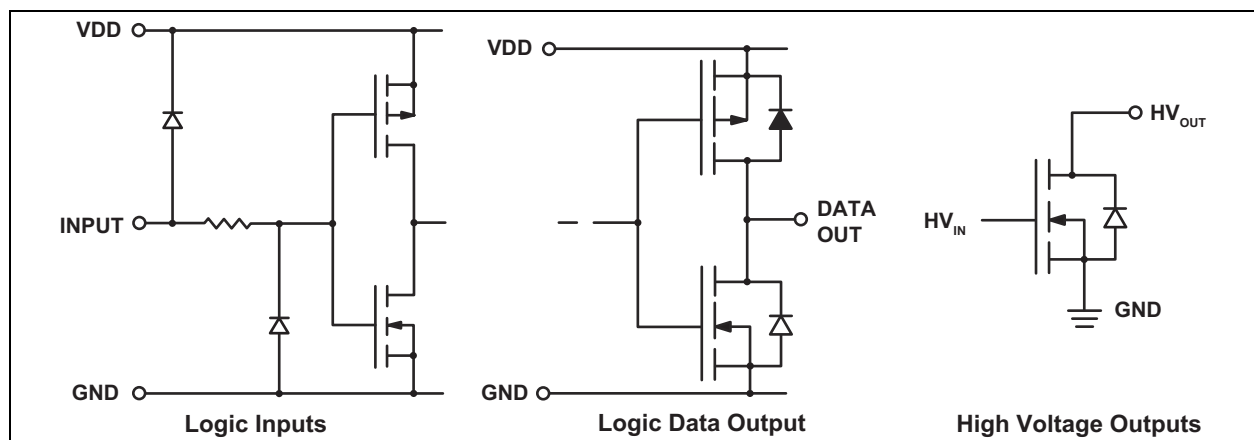


FIGURE 3-1: Input and Output Equivalent Circuits

HV5122 / HV5222

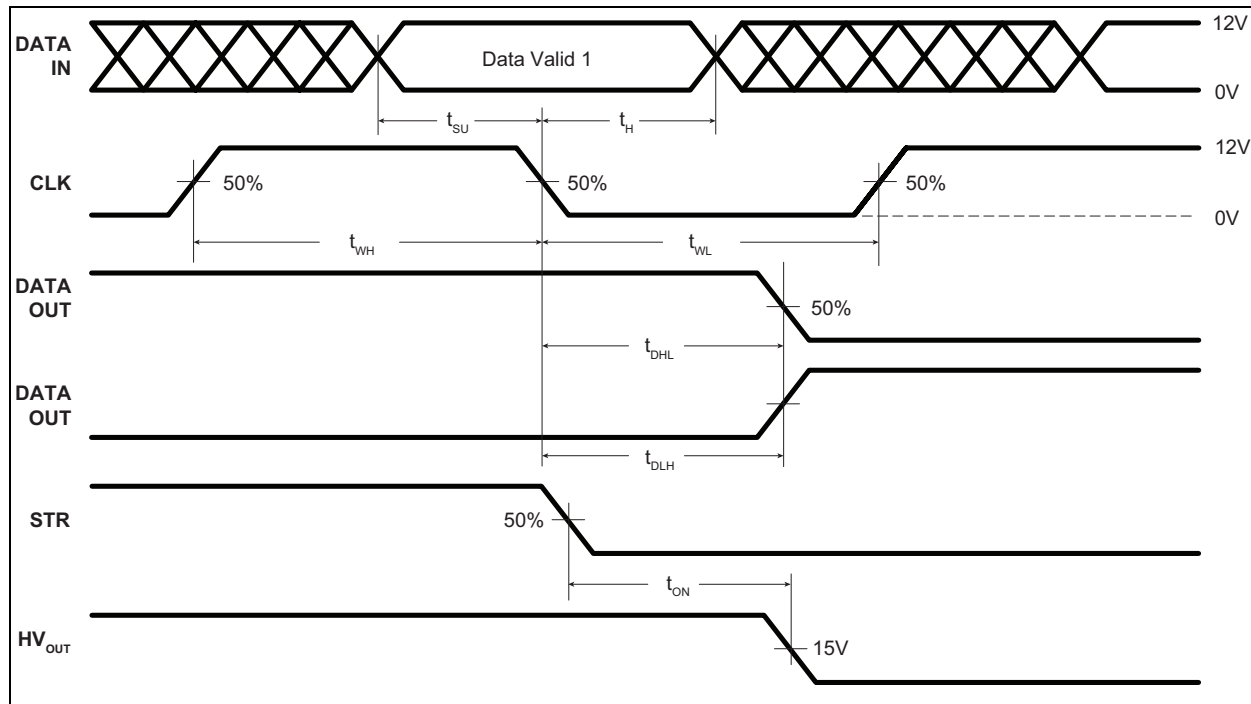
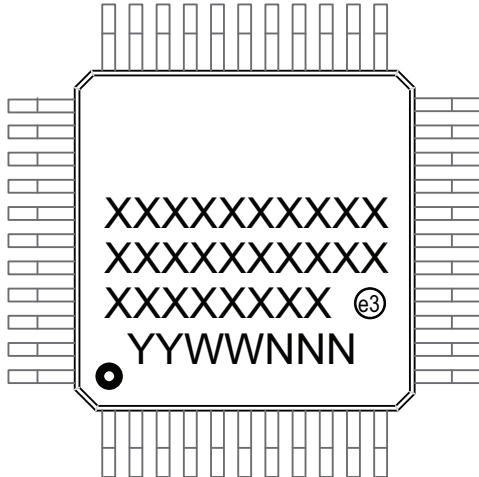


FIGURE 3-2: Switching Waveforms

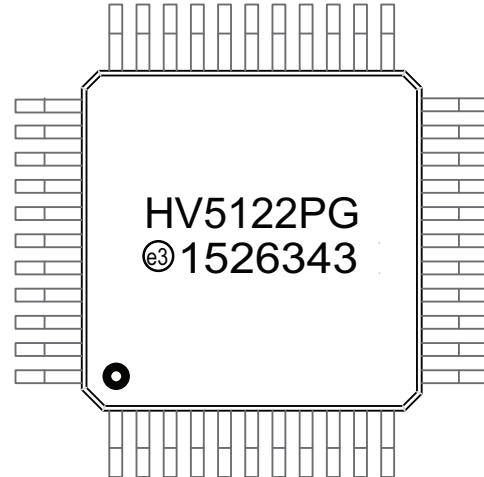
4.0 PACKAGING INFORMATION

4.1 Package Marking Information

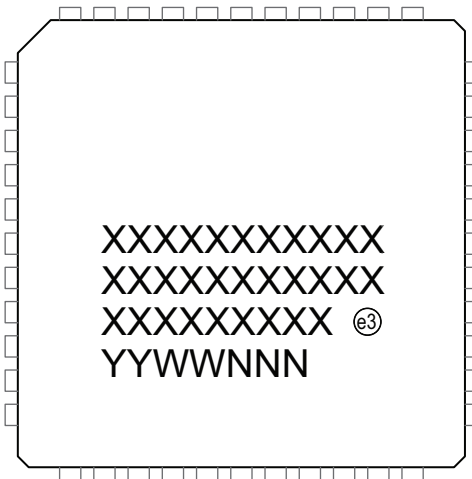
44-lead PQFP



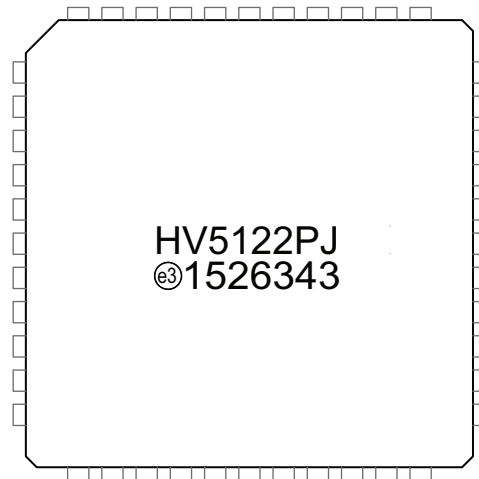
Example



44-lead PLCC



Example

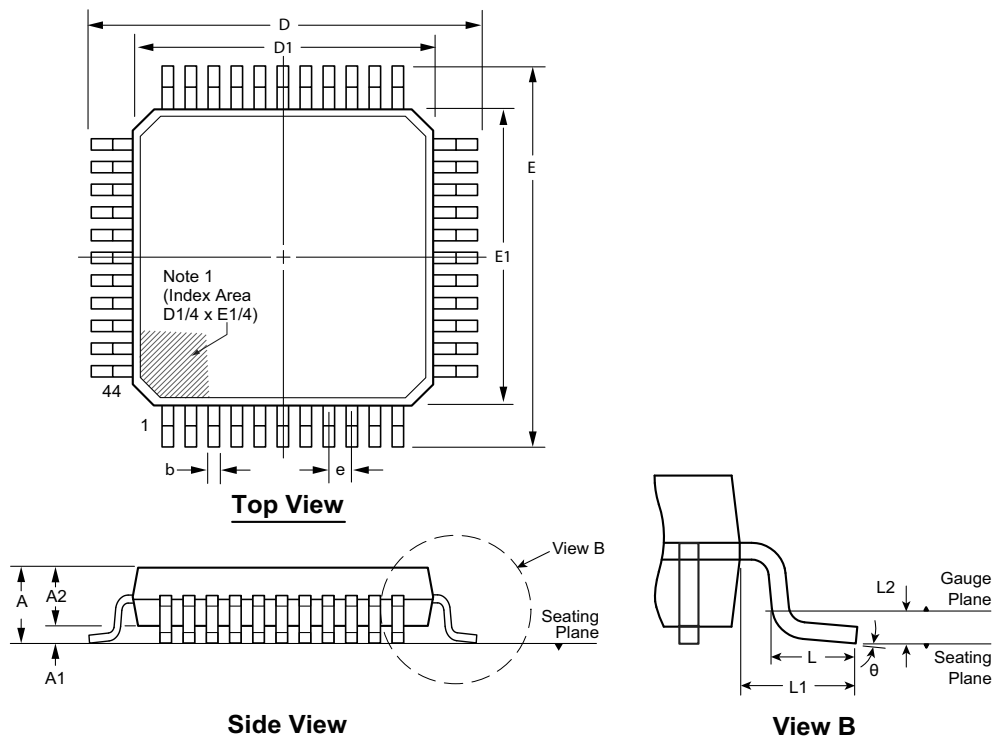


Legend:	XX...X	Product Code or Customer-specific information
	Y	Year code (last digit of calendar year)
	YY	Year code (last 2 digits of calendar year)
	WW	Week code (week of January 1 is week '01')
	NNN	Alphanumeric traceability code
	(e3)	Pb-free JEDEC® designator for Matte Tin (Sn)
	*	This package is Pb-free. The Pb-free JEDEC designator (e3) can be found on the outer packaging for this package.

Note: In the event the full Microchip part number cannot be marked on one line, it will be carried over to the next line, thus limiting the number of available characters for product code or customer-specific information. Package may or not include the corporate logo.

44-Lead PQFP Package Outline (PG)

10.00x10.00mm body, 2.35mm height (max), 0.80mm pitch



Note: For the most current package drawings, see the Microchip Packaging Specification at www.microchip.com/packaging.

Note:

1. A Pin 1 identifier must be located in the index area indicated. The Pin 1 identifier can be: a molded mark/identifier; an embedded metal marker; or a printed indicator.

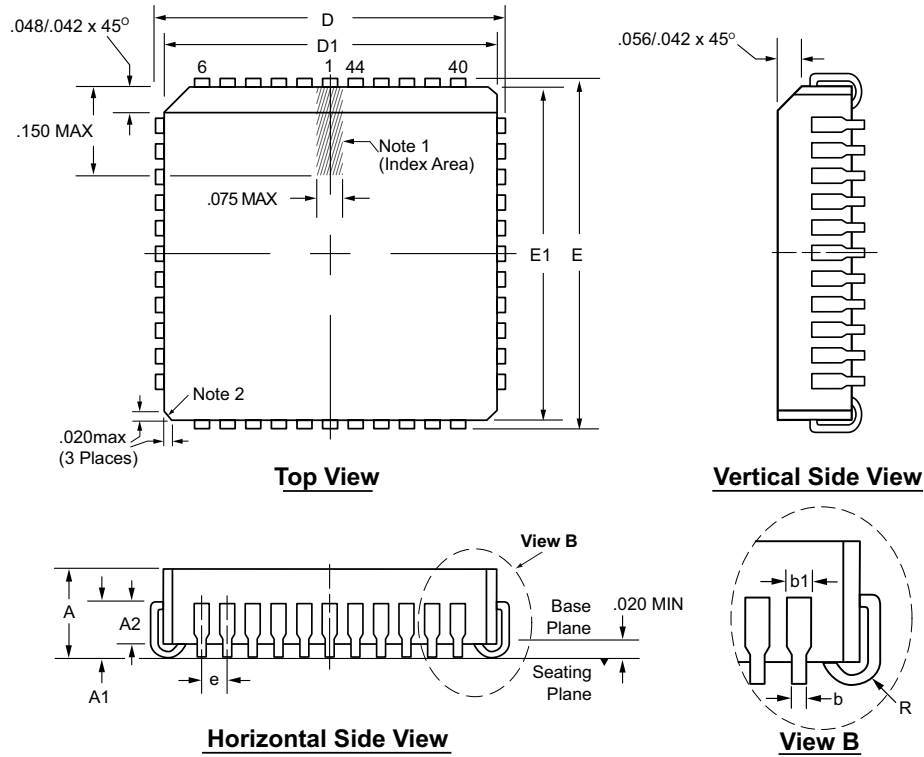
Symbol		A	A1	A2	b	D	D1	E	E1	e	L	L1	L2	θ
Dimension (mm)	MIN	1.95*	0.00	1.95	0.30	13.65*	9.80*	13.65*	9.80*	0.80 BSC	0.73	1.95 REF	0.25 BSC	0°
	NOM	-	-	2.00	-	13.90	10.00	13.90	10.00		0.88			3.5°
	MAX	2.35	0.25	2.10	0.45	14.15*	10.20*	14.15*	10.20*		1.03			7°

JEDEC Registration MO-112, Variation AA-2, Issue B, Sep.1995.

* This dimension is not specified in the JEDEC drawing.

Drawings not to scale.

44-Lead PLCC Package Outline (PJ) .653x.653in body, .180in height (max), .050in pitch



Note: For the most current package drawings, see the Microchip Packaging Specification at www.microchip.com/packaging.

Notes:

1. A Pin 1 identifier must be located in the index area indicated. The Pin 1 identifier can be: a molded mark/identifier; an embedded metal marker; or a printed indicator.
2. Actual shape of this feature may vary.

Symbol		A	A1	A2	b	b1	D	D1	E	E1	e	R
Dimension (inches)	MIN	.165	.090	.062	.013	.026	.685	.650	.685	.650	.050 BSC	.025
	NOM	.172	.105	-	-	-	.690	.653	.690	.653		.035
	MAX	.180	.120	.083	.021	.036†	.695	.656	.695	.656		.045

JEDEC Registration MS-018, Variation AC, Issue A, June, 1993.

† This dimension differs from the JEDEC drawing.

Drawings not to scale.

APPENDIX A: REVISION HISTORY

Revision A (August 2015)

- Update file to new format

PRODUCT IDENTIFICATION SYSTEM

To order or obtain information, e.g., on pricing or delivery, refer to the factory or the listed sales office.

<u>PART NO.</u>	<u>XX</u>	-	<u>X</u>	-	<u>X</u>
Device	Package Options		Environmental		Media Type
Device:	HV5122 = 32-Channel Serial to Parallel Converter, data shifts in counter-clockwise direction HV5222 = 32-Channel Serial to Parallel Converter, data shifts in clockwise direction				
Package:	PG = 44-Lead PQFP PJ = 44-Lead PLCC				
Environmental	G = Lead (Pb)-free/ROHS-compliant package				
Media Type:	(blank) = 96/Tray for PG package = 27/Tube for PJ package				

Examples:
a) HV5122PG-G Data shifts in counter-clockwise direction, 44-Lead PQFP package, 96/Tray
b) HV5222PG-J Data shifts in clockwise direction, 44-Lead PLCC package, 27/Tube

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Tel: 45-4450-2828
Fax: 45-4485-2829

France - Paris
Tel: 33-1-69-53-63-20
Fax: 33-1-69-30-90-79

Germany - Dusseldorf
Tel: 49-2129-3766400

Germany - Munich
Tel: 49-89-627-144-0
Fax: 49-89-627-144-44

Germany - Pforzheim
Tel: 49-7231-424750

Italy - Milan
Tel: 39-0331-742611
Fax: 39-0331-466781

Italy - Venice
Tel: 39-049-7625286

Netherlands - Drunen
Tel: 31-416-690399
Fax: 31-416-690340

Poland - Warsaw
Tel: 48-22-3325737

Spain - Madrid
Tel: 34-91-708-08-90
Fax: 34-91-708-08-91

Sweden - Stockholm
Tel: 46-8-5090-4654

UK - Wokingham
Tel: 44-118-921-5800
Fax: 44-118-921-5820



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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