MPXV7007

Integrated silicon pressure sensor, on-chip signal conditioned, temperature compensated and calibrated

Rev. 4 — 26 January 2021

Product data sheet

1 General description

The MPXV7007 series piezoresistive transducers are monolithic silicon pressure sensors. The MPXV7007 is designed for a wide range of applications, particularly applications employing a microcontroller, or microprocessor with analog-to-digital inputs. This transducer combines advanced micromachining techniques, thin-film metallization, and bipolar processing to provide an accurate, high-level analog output signal that is proportional to the applied pressure.

2 Features and benefits

- · Ideally suited for microprocessor or microcontroller-based systems
- Temperature compensated over -40 °C to +125 °C
- Thermoplastic (PPS) surface mount package
- · Patented silicon shear stress strain gauge
- · Available in differential and gauge configurations

3 Applications

- · Hospital beds
- HVAC
- Respiratory systems
- Process control

4 Ordering information

Table 1. Ordering information

Type number	Package						
	Name	Description	Version				
MPXV7007DP	SO8	Plastic, small outline package, 8 terminals, 2.54 mm pitch, 12.06 mm x 12.06 mm x 7.62 mm body	SOT1693-1				
MPXV7007GC6U	SO8	Plastic, small outline package, 8 terminals, 2.54 mm pitch, 10.67 mm x 10.67 mm x 12.96 mm body	SOT1854-1				
MPXV7007GP	SO8	Plastic, small outline package, 8 terminals, 2.54 mm pitch, 12.06 mm x 12.06 mm x 8.38 mm body	SOT1693-3				



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4.1 Ordering options

Table 2. Ordering options

Device name	Package SOT		# of Ports		Pressure type			Device	
Device name	options	no.	None	Single	Dual	Gauge	Differential	Absolute	marking
Small Outline Package									
MPXV7007DP	Trays	1693-1			•		•		MPXV7007DP
MPXV7007DPT1	Tape and Reel	1693-1			•		•		MPXV7007DP
MPXV7007GC6U	Rails	1854-1		•		•			MPXV7007G
MPXV7007GC6T1	Tape and Reel	1854-1		•		•			MPXV7007G
MPXV7007GP	Trays	1693-3		•		•			MPXV7007GP

Small outline packages



MPXV7007DP/DPT1 CASE 1351-01 SOT1693-1

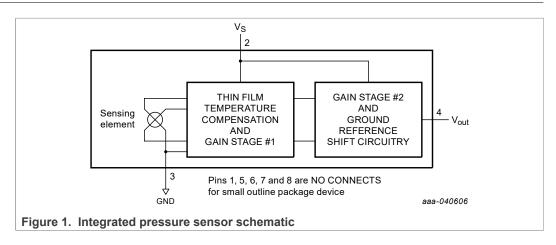


MPXV7007GC6U/C6T1 CASE 482A-01 SOT1854-1



MPXV7007GP CASE 1369-01 SOT1693-3

5 Block diagram



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6 Pinning information

6.1 Pinning

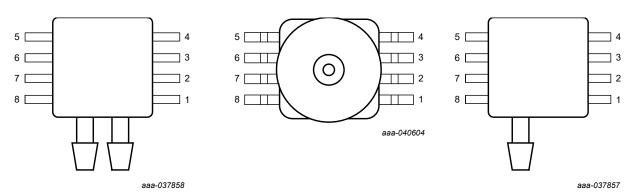


Figure 2. MPXV7007DP/DPT1 pin diagram

Figure 3. MPXV7007GC6U/C6T1 pin diagram

Figure 4. MPXV7007GP pin diagram

6.2 Pin description

This device family uses the style 2 pin configuration documented in <u>Table 3</u> and shown in <u>Figure 12</u>.

Table 3. Pin description

Symbol	Pin ^[1]	Description
n.c.	1	_[2]
Vs	2	Supply voltage
GND	3	Ground
V _{out}	4	Voltage output
n.c.	5	_[2]
n.c.	6	_[2]
n.c.	7	_[2]
n.c.	8	_[2]

- [1] The notch in the lead indicates pin 1.
- [2] Internal device connection. Do not connect to external circuitry or ground

7 Maximum ratings

Table 4. Maximum ratings^[1]

Rating	Symbol	Value	Unit
Maximum pressure	P _{max}	75	kPa
Storage temperature	T _{stg}	-40 to +125	°C
Operating temperature	T _A	-40 to +125	°C

[1] Exposure beyond the specified limits may cause permanent damage or degradation to the device.

<u>Figure 1</u> shows a block diagram of the internal circuitry integrated on a pressure sensor chip.

MPXV7007

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Integrated silicon pressure sensor, on-chip signal conditioned, temperature compensated and

Operating characteristics

Table 5. Operating characteristics)

 $(V_S = 5.0 \text{ Vdc}, T_A = 25 ^{\circ}\text{C}$ unless otherwise noted. Decoupling circuit shown in Figure 6 required to meet specification.

Characteristic	Symbol	Min	Тур	Max	Unit
Pressure range ^[1]	P _{OP}	-7	_	7	kPa
Supply voltage ^[2]	Vs	4.75	5.0	5.25	Vdc
Supply current	Io	_	7.0	10	mAdc
Minimum pressure offset ^[3] (0 °C to 85 °C) @ $V_S = 5.0 \text{ Volts}$	V _{off}	0.33	0.5	0.67	Vdc
Full scale output ^[4] (0 °C to 85 °C) @ V _S = 5.0 Volts	V _{FSO}	4.3	4.5	4.7	Vdc
Full scale span ^[5] (0 °C to 85 °C) @ V _S = 5.0 Volts	V _{FSS}	_	4.0	_	Vdc
Accuracy ^[6] (0 °C to 85 °C)	_	_	_	±5.0	%V _{FSS}
Sensitivity	V/P	_	286		mV/kPa
Response time ^[7]	t _R	_	1.0		ms
Output source current at full scale output	I _{O+}	_	0.1		mAdc
Warm-up time ^[8]	_	_	20		ms
Offset stability ^[9]	_	_	± 0.5		%V _{FSS}

- 1.0 kPa (kiloPascal) equals 0.145 psi.
- [2] [3] Device is ratiometric within this specified excitation range.
- Offset (Voff) is defined as the output voltage at the minimum rated pressure.
- [4] [5] Full scale output (V_{FSO}) is defined as the output voltage at the maximum or full rated pressure.
- Full scale span (V_{FSS}) is defined as the algebraic difference between the output voltage at full rated pressure and the output voltage at the minimum rated
- Accuracy (error budget) consists of the following:
 - · Linearity: Output deviation from a straight-line relationship with pressure over the specified pressure range.
 - · Temperature hysteresis: Output deviation at any temperature within the operating temperature range, after the temperature is cycled to and from the minimum or maximum operating temperature points, with zero differential pressure applied.
 - · Pressure hysteresis: Output deviation at any pressure within the specified range, when this pressure is cycled to and from the minimum or maximum rated pressure, at 25 °C.
 - TcSpan: Output deviation over the temperature range of 0 °C to 85 °C, relative to 25 °C.
 - TcOffset: Output deviation with minimum rated pressure applied, over the temperature range of 0 °C to 85 °C, relative to 25 °C.
 - Variation from nominal: The variation from nominal values, for offset or full scale span, as a percent of V_{FSS}, at 25 °C.
- Response time is defined as the time for the incremental change in the output to go from 10 % to 90 % of its final value when subjected to a specified step change in pressure.
- Warm-up time is defined as the time required for the product to meet the specified output voltage after the pressure has been stabilized.
- Offset stability is the output deviation of the product when subjected to 1000 hours of pulsed pressure, temperature cycling with bias test.

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9 Characteristics

9.1 On-chip temperature compensation, calibration, and signal conditioning

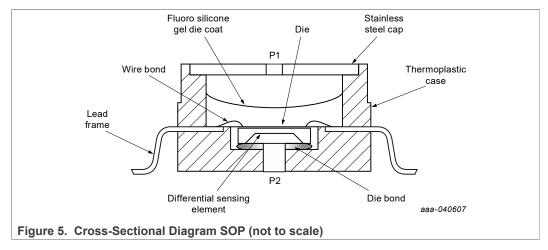
The performance over temperature is achieved by integrating the shear-stress strain gauge, temperature compensation, calibration, and signal conditioning circuitry onto a single monolithic chip.

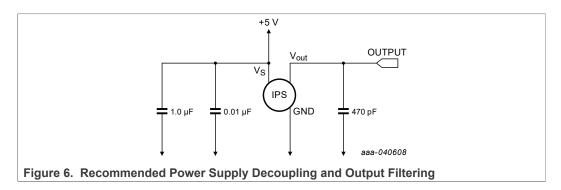
<u>Figure 5</u> illustrates the differential or gauge configuration in the basic chip carrier (Case 482). A fluorosilicone gel isolates the die surface and wire bonds from the environment, while allowing the pressure signal to be transmitted to the sensor diaphragm.

The MPXV7007 series pressure sensor operating characteristics, and internal reliability and qualification tests are based on use of dry air as the pressure media. Media, other than dry air, may have adverse effects on sensor performance and long-term reliability. Contact the factory for information regarding media compatibility in your application.

<u>Figure 6</u> shows the recommended decoupling circuit for interfacing the integrated sensor to the analog-to-digital input of a microprocessor or microcontroller. Proper decoupling of the power supply is recommended.

<u>Figure 7</u> shows the sensor output signal relative to pressure input. Typical, minimum, and maximum output curves are shown for operation over a temperature range of 0 °C to 85 °C using the decoupling circuit shown in <u>Figure 6</u>. The output saturates outside the specified pressure range.

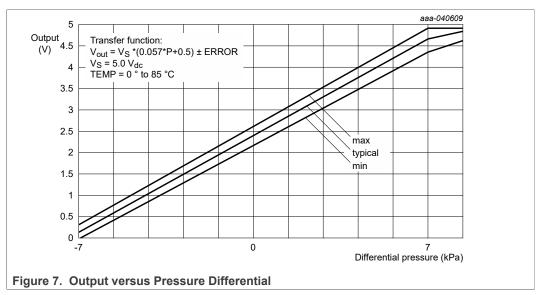




MPXV7007

Integrated silicon pressure sensor, on-chip signal conditioned, temperature compensated and calibrated

For additional output filtering, refer to Application Note AN1646^[1].

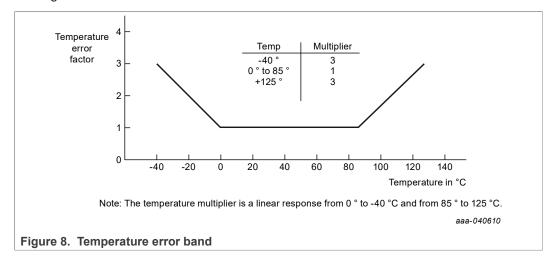


Transfer function

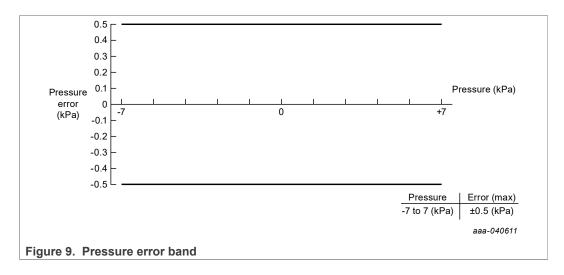
Nominal transfer value:

$$V_{out} = V_S \times (0.057 \times P + 0.5) \pm (Pressure Error \times Temp. Factor \times 0.057 \times V_S)$$

 $V_S = 5.0 \text{ V} \pm 0.25 \text{ Vdc}$



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9.2 Pressure (P1)/Vacuum (P2) side identification table

NXP designates the two sides of the pressure sensor as the Pressure (P1) side and the Vacuum (P2) side. The P1 side is the side containing fluoro silicone gel which protects the die from harsh media. The pressure sensor is designed to operate with both positive and negative differential pressure applied, P1 > P2 or P1 < P2.

The P1 side may be identified by using Table 6.

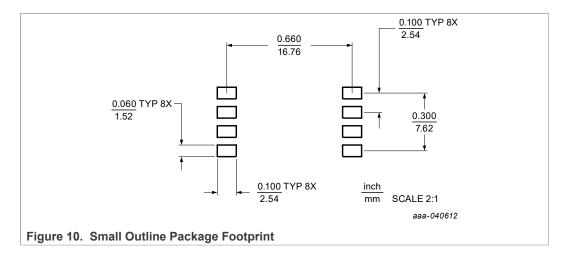
Table 6. Pressure side identification

Part number	Case type	Pressure (P1) Side identifier
MPXV7007GC6U/C6T1	482A	Side with port attached
MPXV7007GP	1369	Side with port attached
MPXV7007DP/DPT1	1351	Side with part marking

9.3 Minimum recommended footprint for surface-mounted applications

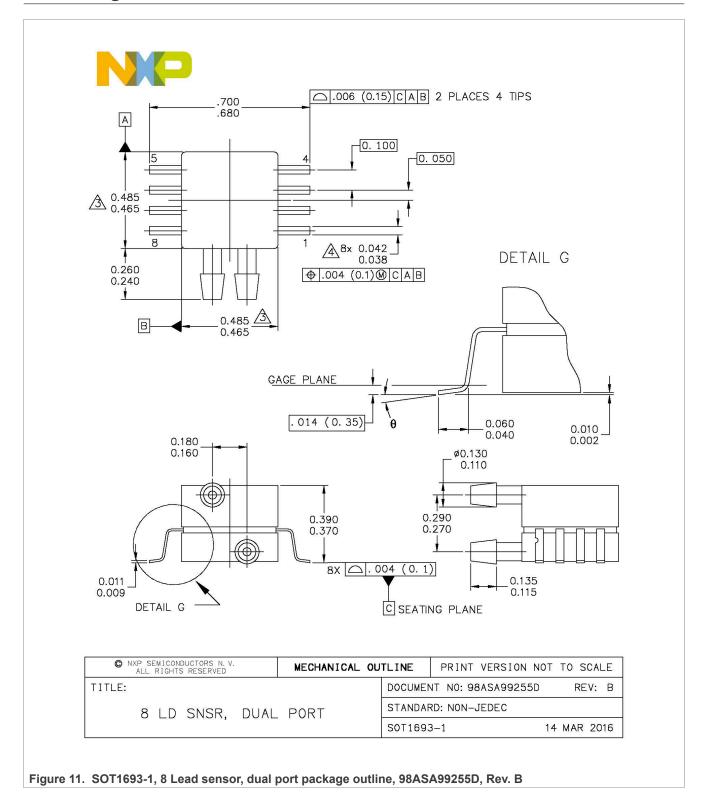
Surface mount board layout is a critical portion of the total design. The footprint for the surface mount packages must be the correct size to ensure proper solder connection interface between the board and the package. With the correct footprint, the packages self-align when subjected to a solder reflow process. NXP recommends designing boards with a solder mask layer to avoid bridging and shorting between solder pads.

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10 Package outline



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NOTES:

- 1. CONTROLLING DIMENSION: INCH
- 2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.

ADIMENSIONS DO NOT INCLUDE MOLD FLASH OR PPROTRUSIONS.
MOLD FLASH AND PROTRUSIONS SHALL NOT EXCEED .006 PER SIDE.

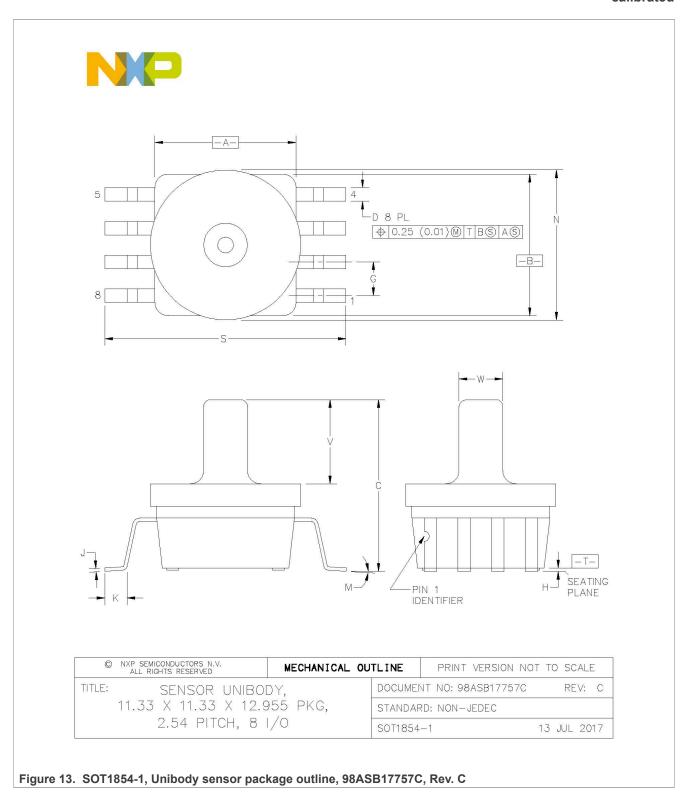
DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE .008 MAXIMUM.

STYLE 1:			STYLE 2:		
PIN	1:	GND	PIN	1:	N/C
PIN	2:	+Vou t	PIN	2:	Vs
PIN	3:	٧s	PIN	3:	GND
PIN	4:	–Vou t	PIN	4:	Vout
PIN	5:	N/C	PIN	5:	N/C
PIN	6:	N/C	PIN	6:	N/C
PIN	7:	N/C	PIN	7:	N/C
PIN	8:	N/C	PIN	8:	N/C

NXP SEMICONDUCTORS N. V. ALL RIGHTS RESERVED	MECHANICAL OU	TLINE	PRINT VERSION NO	T TO SCALE
TITLE:		DOCUMEN	NT NO: 98ASA99255D	REV: B
8 LD SNSR, DUAL	PORT	STANDAF	RD: NON-JEDEC	
		S0T1693	3–1	14 MAR 2016

Figure 12. SOT1693-1, 8 Lead sensor, dual port package outline notes, 98ASA99255D, Rev. B

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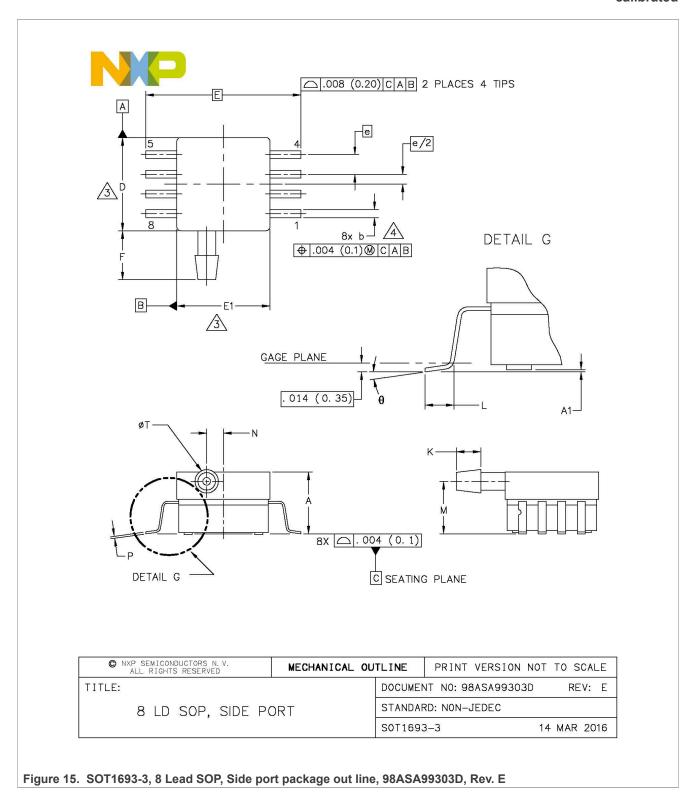
NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- 2. CONTROLLING DIMENSION: INCH.
- 3. DIMENSION 'A' AND 'B' DO NOT INCLUDE MOLD PROTUSION.
- 4. MAXIMUM MOLD PROTRUSION 0.15 (0.006).
- 5. ALL VERTICAL SURFACES 5' TYPICAL DRAFT.

	INC	HES	MILL	IMETERS				
DIM	MIN	MAX	MIN	MAX				
Α	0.415	0. 425	10. 54	10. 79				
В	0.415	0.425	10, 54	10.79				
С	0.500	0. 520	12. 70	13. 21				
D	0. 038	0.042	0. 96	1.07				
G	0.100	BSC	2. 5	4 BSC				
Н	0.002	0.010	0. 05	0. 25				
J	0.009	0.011	0. 23	0. 28				
К	0.061	0.071	1. 55	1.80				
М	0°	7°	0°	7°				
N	0.444	0.448	11. 28	11.38				
S	0.709	0.725	18. 01	18.41				
V	0. 245	0. 255	6. 22	6.48				
W	0. 115	0.125	2. 92	3. 17				
0	NXP SEMICONE ALL RIGHTS	DUCTORS N.V. RESERVED		MECHANICA	L OU	TLINE	PRINT VERSION NOT TO SCALE	
TITLE:	SE	ENSOR L	JNIBOD	Υ,		DOCUME	NT NO: 98ASB17757C REV: C	
	11.33 X					STANDAF	RD: NON-JEDEC	
	2.	54 PITCI	H, 8 I/	/0		SOT1854	1 13 JUL 2017	

Figure 14. SOT1854-1, Unibody sensor package outline notes, 98ASB17757C, Rev. C

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NOTES:

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- 2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.
- A DIMENSIONS DO NOT INCLUDE MOLD FLASH OR PPROTRUSIONS. MOLD FLASH AND PROTRUSIONS SHALL NOT EXCEED .006 (0.152) PER SIDE.
- A DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE .008 (0.203) MAXIMUM.

	INC	HES	MILLIMETERS			INCHES		MILLI	METERS
DIM	MIN	MAX	MIN	MAX	DIM	MIN	MAX	MIN	MAX
Α	.300	.330	7.62	8.38	θ	0.	7'	0.	7.
A1	.002	.010	0.05	0.25	=				
ь	.038	.042	0.96	1.07	-		, ,,,,, ,		
D	.465	.485	11.81	12.32	_				
E	.717	BSC	18	.21 BSC	-				
E1	.465	.485	11.81	12.32	_				
е	.100	BSC	2.	2.54 BSC					
F	.245	.255	6.22	6.47	_		,—,—,		
K	.120	.130	3.05	3.30	-				
L	.061	.071	1.55	1.80	_				
М	.270	.290	6.86	7.36	_				
N	.080	.090	2.03	2.28	_	<u> </u>		-	
Р	.009	.011	0.23	0.28	_				
Ţ	.115	.125	2.92	3.17	_				
	NXP SEMIC ALL RIG	ONDUCTORS N. V HTS RESERVED		MECHANICA	L OU	TLINE	PRINT VER	SION NOT	TO SCALE
TITI	LE:					DOCUMEN	NT NO: 98ASA	99303D	REV: E
	8 LD SOP, SIDE PORT					STANDAR	RD: NON-JEDE	С	

S0T1693-3 14 MAR 2016

Figure 16. SOT1693-3, 8 Lead SOP, Side port package out line notes, 98ASA99303D, Rev. E

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11 References

[1] AN1646 – Noise considerations for integrated pressure sensors https://www.nxp.com/docs/en/application-note/AN1646.pdf

12 Revision history

Table 7. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes			
MPXV7007 v.4	20210126	Product data sheet	_	MPXV2050 v.3			
Modifications	guidelines of N company name • Global changes	 The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors, N.V. Legal texts have been adapted to the new company name where appropriate. Global changes, revised as follows: 					
	 Revised all images including the package outline drawings to comply with NXP Semiconductor graphic standards. Performed minor grammatical, content, and typographical changes throughout. 						
	• <u>Section 1</u> , revis	sed the first paragraph.					
	• Section 2, remo	oved bullet "5.0 % maxim	num error over 0 °C t	to 85 °C".			
	 <u>Section 6.2</u>, added clarification stating this device family uses the style 2 pin configuration as shown in <u>Figure 12</u>. <u>Section 11</u>, added new reference section. 						
MPXV7007 v.3	201210	Product data sheet	_	MPXV7007 v.2			
Modifications	MPXV7007GP	Deleted references to device numbers MPXV7007G6T1/U, MPXV7007G6U/T1, and MPXV7007GPT1 throughout the document, deleted Case 482-01 Issue O Small Outline Package diagram on page 7.					

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13 Legal information

13.1 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".
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Tables

Tab. 1. Tab. 2. Tab. 3. Tab. 4.	Ordering information1Ordering options2Pin description3Maximum ratings3	Tab. 5. Tab. 6. Tab. 7.	Operating characteristics) Pressure side identification Revision history	7
Figures				
Fig. 1. Fig. 2. Fig. 3.	Integrated pressure sensor schematic	Fig. 12.	SOT1693-1, 8 Lead sensor, dual port package outline notes, 98ASA99255D, Rev. B	10
Fig. 4. Fig. 5.	MPXV7007GP pin diagram3 Cross-Sectional Diagram SOP (not to	Fig. 13.	SOT1854-1, Unibody sensor package outline, 98ASB17757C, Rev. C	
Fig. 6.	scale)5 Recommended Power Supply Decoupling	Fig. 14.	SOT1854-1, Unibody sensor package outline notes, 98ASB17757C, Rev. C	12
Fig. 7.	and Output Filtering5 Output versus Pressure Differential6	Fig. 15.	SOT1693-3, 8 Lead SOP, Side port package out line, 98ASA99303D, Rev. E	13
Fig. 8. Fig. 9. Fig. 10.	Temperature error band	Fig. 16.	SOT1693-3, 8 Lead SOP, Side port package out line notes, 98ASA99303D, Rev. E	14
Fig. 11.	SOT1693-1, 8 Lead sensor, dual port package outline, 98ASA99255D, Rev. B9		1.07.	17