50 kPa Temperature Compensated Pressure Sensors

Rev. 11 — 22 April 2021

Product data sheet

# **1** General Description

The MPX2053 series devices are silicon piezoresistive pressure sensors that provide a highly accurate and linear voltage output directly proportional to the applied pressure. The sensor is a single monolithic silicon diaphragm with the strain gauge and a thin-film resistor network integrated on-chip. The chip is laser trimmed for precise span and offset calibration and temperature compensation.

# 2 Features and Benefits

- Ratiometric to Supply Voltage
- Differential and Gauge Options
- Temperature Compensated over 0 °C to 85 °C
- Easy-to-Use Chip Carrier Package Options

# 3 Applications

- Level Indicators
- Medical Diagnostics
- Robotics
- Pressure Switching
- Pump/Motor Controllers
- Non-Invasive Blood Pressure Measurement



# 4 Ordering Information

#### Table 1. Ordering information

Device Name	Package	Case	Number of ports		Pressure type			Device marking	
	options	number	None	Single	Dual	Gauge	Differential	Absolute	
Small Outline Package (MPXV2053 series)									
MPXV2053DP	Tray	<u>1351</u>			٠		•		MPXV2053DP
Unibody Package (N	Unibody Package (MPX2053 Series)								
MPX2053D	Tray	<u>344</u>	•				•		MPX2053D
MPAK Package (MF	PXM2053 Seri	es)							
MPXM2053DT1	Tape & Reel	<u>1320</u>	•				•		MPXM2053D
MPXM2053GS	Tube	<u>1320A</u>		•		•			MPXM2053GS
MPXM2053GST1	Tape & Reel	<u>1320A</u>		•		•			MPXM2053GS

#### Unibody Package



MPX2053D Case 344-15

#### **Small Outline Package**



MPXV2053DP Case 1351-01

**MPAK Packages** 



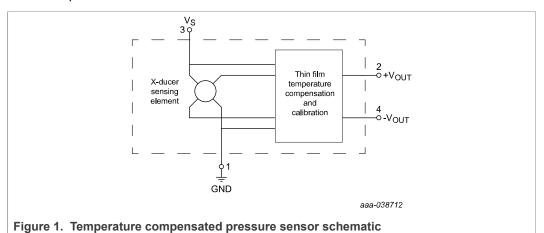
MPXM2053DT1 Case 1320-02



MPXM2053GS/GST1 Case 1320A-02

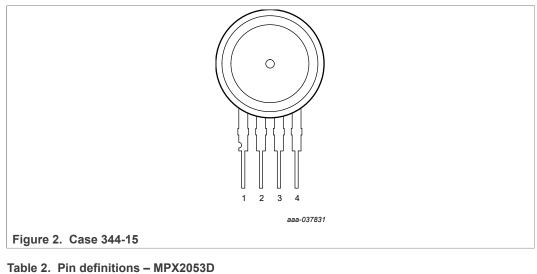
## 5 Block Diagram

Figure 1 shows a block diagram of the internal circuitry on the stand-alone pressure sensor chip.



# 6 Pin Information

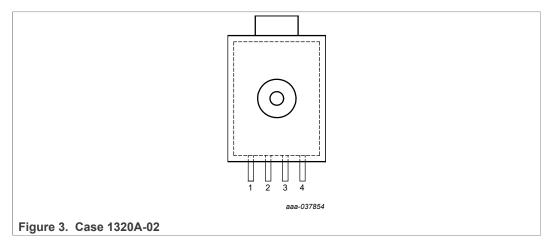
#### 6.1 MPX2053D



Symbol	Pin	Description
GND	1	Ground
+V <sub>OUT</sub>	2	+ Voltage output
Vs	3	Power supply
–V <sub>OUT</sub>	4	- Voltage output

MPX2053 Product data sheet

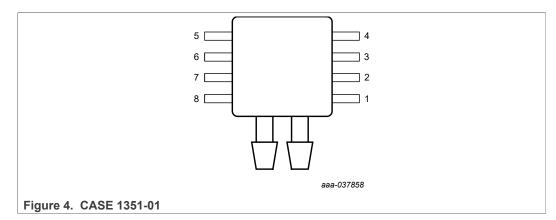
### 6.2 MPXM2053GS/GST1



#### Table 3. Pin definitions – MPXM2053GS/GST1

Symbol	Pin	Description
GND	1	Ground
+V <sub>OUT</sub>	2	+ Voltage output
Vs	3	Power supply
-V <sub>OUT</sub>	4	- Voltage output

### 6.3 MPXV2053DP

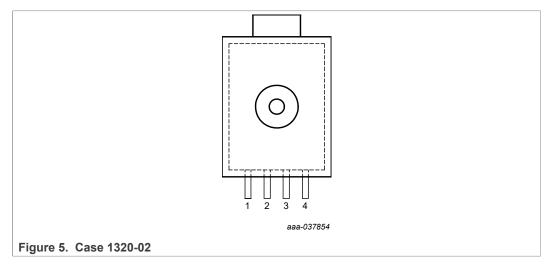


#### Table 4. Pin definitions – MPXV2053DP

Symbol	Pin	Description				
GND	1	Ground				
+V <sub>OUT</sub>	2	+ Voltage output				
Vs	3	Power supply				
–V <sub>OUT</sub>	4	- Voltage output				
n.a.	5	-				
n.a.	6	-				
n.a.	7	-				
n.a.	8	_				

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### 6.4 MPXM2053DT1



#### Table 5. Pin definitions - MPXM2053DT1

Symbol	Pin	Description
GND	1	Ground
+V <sub>OUT</sub>	2	+ Voltage output
V <sub>S</sub>	3	Power supply
-V <sub>OUT</sub>	4	- Voltage output

# 7 Maximum Ratings

#### Table 6. Maximum ratings

Exposure beyond the specified limits may cause permanent damage or degradation to the device. In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
P <sub>max</sub>	Overpressure	P1 > P2	—	_	200	kPa
T <sub>stg</sub>	Storage Temperature		-40	_	+125	°C
T <sub>A</sub>	Operating Temperature		-40		+125	°C

#### **Operating Characteristics** 8

#### Table 7. Operating Characteristics ( $V_s = 10.0 \text{ Vdc}$ , $T_a = 25 \text{ °C}$ unless otherwise noted, P1 > P2)

Characteristic		Symbol	Min	Тур	Мах	Unit
Operating Pressure Range	[1]	P <sub>OP</sub>	0	_	50	kPa
Supply Voltage	[2]	Vs		10	16	Vdc
Supply Current		Ι <sub>ο</sub>		6.0		mAdc
Full Scale Span	[3]	V <sub>FSS</sub>	38.5	40	41.5	mV
Offset	[4]	V <sub>off</sub>	-1.0	_	1.0	mV
Sensitivity		ΔV/ΔΡ	_	0.8		mV/kPa
Linearity	[5]		-0.6	—	0.4	%V <sub>FSS</sub>
Pressure Hysteresis (0 kPa to 50 kPa)	[5]			±0.1		%V <sub>FSS</sub>
Temperature Hysteresis (–40 °C to 125 °C)	[5]			±0.5		%V <sub>FSS</sub>
Temperature Coefficient of Full Scale Span	[5]	TCV <sub>FSS</sub>	-2.0	_	2.0	%V <sub>FSS</sub>
Temperature Coefficient of Offset	[5]	TCV <sub>off</sub>	-1.0	—	1.0	mV
Input Impedance		Z <sub>in</sub>	1000	—	2500	Ω
Output Impedance		Z <sub>out</sub>	1400	_	3000	Ω
Response Time (10% to 90%)	[6]	t <sub>R</sub>		1.0		ms
Warm-Up Time	[7]		—	20		ms
Offset Stability	[8]		—	±0.5	—	%V <sub>FSS</sub>

1.0 kPa equals 0.145 PSI. [1]

Device is ratiometric within this specified excitation range. Operating the device above the specified excitation range may induce additional error due to [2] device self-heating.

[3] Full Scale Span (V<sub>FSS</sub>) is defined as the algebraic difference between the output voltage at full rated pressure and the output voltage at the minimum rated pressure.

Offset (V<sub>off</sub>) is defined as the output voltage at the minimum rated pressure. [4] [5]

Accuracy (error budget) consists of the following:

• Linearity: Output deviation from a straight line relationship with pressure, using the end point method, 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 at full rated pressure 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 [6] 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. [7]

Offset Stability is the product's output deviation when subjected to 1000 hours of Pulsed Pressure Temperature Cycling with Bias test. [8]

### 9 Characteristics

#### 9.1 Voltage output versus applied differential pressure

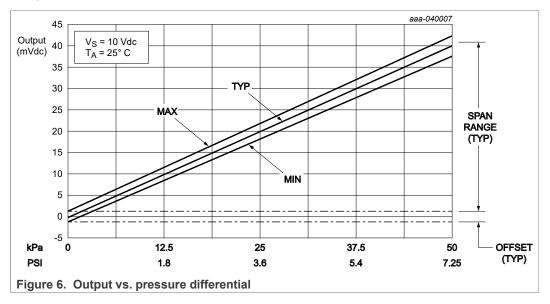
The output voltage of the differential or gauge sensor increases with increasing pressure applied to the pressure side (P1) relative to the vacuum side (P2). Similarly, output voltage increases as increasing vacuum is applied to the vacuum side (P2) relative to the pressure side (P1).

#### 9.2 On-chip temperature compensation and calibration

Figure 6 shows the typical output characteristics of the MPX2053 series at 25 °C.

The effects of temperature on full scale span and offset are very small and are shown under <u>Section 8 "Operating Characteristics"</u>.

This performance over temperature is achieved by having both the shear stress strain gauge and the thin-film resistor circuitry on the same silicon diaphragm. Each chip is dynamically laser trimmed for precise span and offset calibration and temperature compensation.



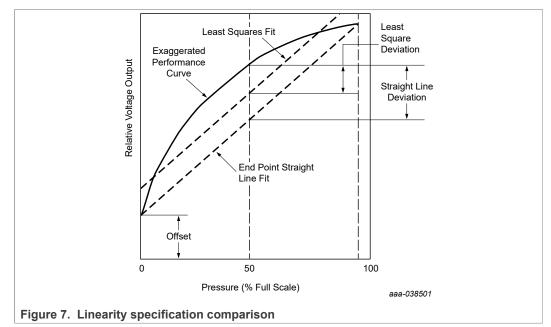
#### 9.3 Linearity

Linearity refers to how well a transducer's output follows the equation  $V_{out} = V_{off} + Sensitivity x P$  over the operating pressure range (<u>Figure 7</u>). There are two basic methods for calculating nonlinearity:

- End point straight line fit
- Least squares best line fit

While a least squares fit gives the "best case" linearity error (lower numerical value), the calculations required are burdensome.

Conversely, an end point fit will give the "worst case" error (often more desirable in error budget calculations) and the calculations are more straightforward for the user.



NXP's specified pressure sensor linearities are based on the end point straight line method measured at the midrange pressure.

### 9.4 Pressure (P1) / Vacuum (P2) side identification

NXP designates the two sides of the pressure sensor as the Pressure (P1) side and the Vacuum (P2) side. The Pressure (P1) side is the side containing silicone gel that isolates the die from the environment. The NXP MPX pressure sensor is designed to operate with positive differential pressure applied, P1 > P2.

The Pressure (P1) side may be identified by using Table 8.

Part Number	Case Type	Pressure (P1) Side Identifier
MPX2053D	344	Stainless Steel Cap
MPXV2053DP	1351	Side with Part Marking
MPXM2053DT1	1320	Side with Part Marking
MPXM2053GS/GST1	1320A	Side with Port Attached

 Table 8. Pressure (P1) side delineation table

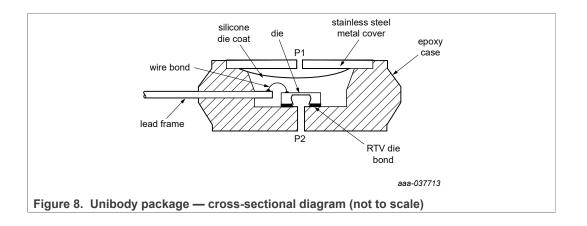
### 9.5 Media compatibility

<u>Figure 8</u> illustrates the differential or gauge configuration in a typical chip carrier. A silicone gel isolates the die surface and wire bonds from the environment while allowing the pressure signal to be transmitted to the silicon diaphragm.

The MPX2053 series pressure sensor operating characteristics, internal reliability and qualification tests are based on the use of dry clean air as the pressure medium. Media other than dry clean air may have adverse effects on sensor performance and long term reliability. Contact the factory for information regarding media compatibility in your application.

For more information, refer to application note AN3728.

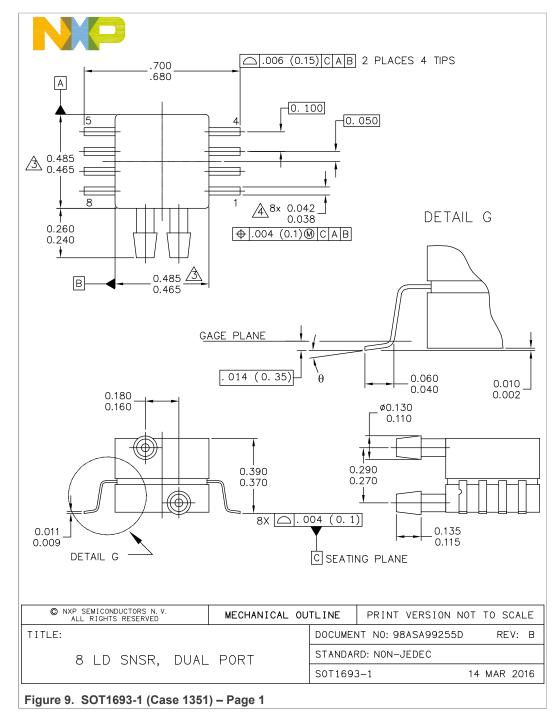
#### 50 kPa Temperature Compensated Pressure Sensors



# **10 Package Outlines**

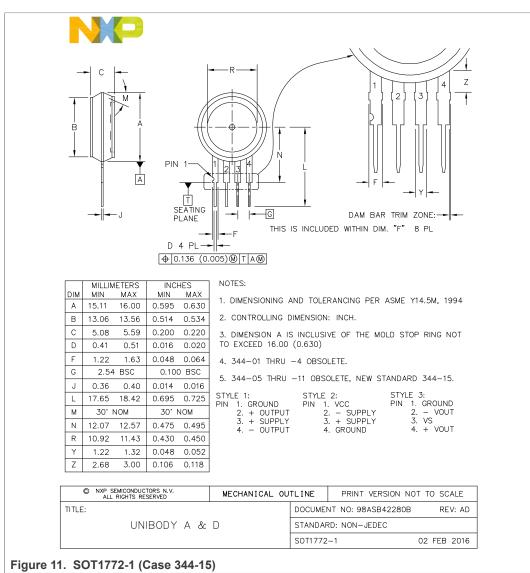
Package dimensions are provided in package drawings. To find the most current package outline drawing, go to <u>https://www.nxp.com/</u> and perform a keyword search for the drawing's document number.

#### **10.1 Small outline packages**



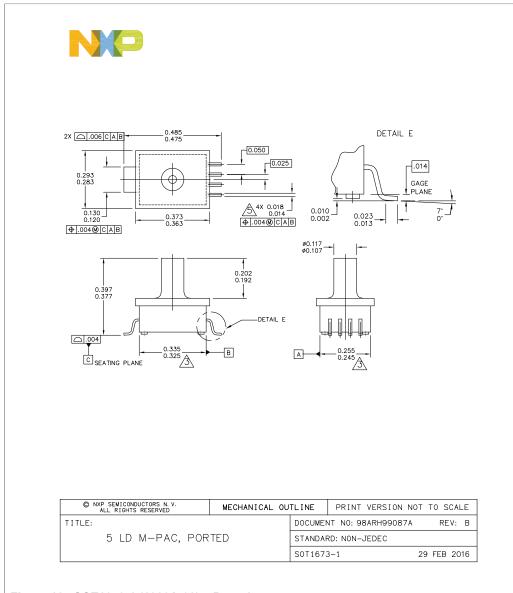
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NOTES:					
I. CONTROLLING DIMEN					
2. INTERPRET DIMENSION $\wedge$					
3 DIMENSIONS DO NO MOLD FLASH AND I					
DIMENSION DOES NO PROTRUSION SHALL			TRUSION. ALLOW	ABLE DAMBAR	
	STYLE 1:		STYLE 2:		
	PIN 1:	GND +Vout	PIN 1: PIN 2:		
	PIN 3:		PIN 3:	GND	
	PIN 5:	N/C	PIN 4: PIN 5:	N/C	
	PIN 6: PIN 7:	N/C N/C	PIN 6: PIN 7:		
	PIN 8:	N/C N/C	PIN 8:	N/C	
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### 10.2 Unibody packages

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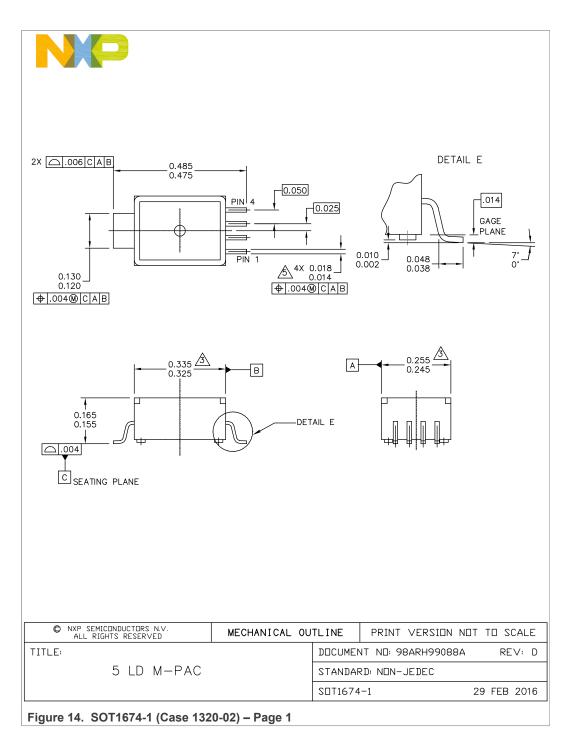
# 10.3 MPAK packages

Figure 12. SOT1673-1 (1320A-02) – Page 1

### 50 kPa Temperature Compensated Pressure Sensors

NOTES:				
1. DIMENSIONS ARE IN INCHES.				
2. INTERPRET DIMENSIONS AND 1	OLERANCES PER ASM	E Y14.5M-	1994.	
A DIMENSIONS DOES NOT INCLUE PROTRUSION SHALL NOT EXC	DE MOLD FLASH OR P EED .006" PER SIDE.	ROTRUSION	. MOLD FLASH OR	
4. ALL VERTICAL SURFACES TO E	BE 5" MAXIMUM.			
DIMENSION DOES NOT INCLUDE SHALL BE .008 MAXIMUM.	E DAMBAR PROTRUSIO	N. ALLOWA	BLE DAMBAR PROTRUSIC	N
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NOTES:							
1. DIMENSIONS ARE IN INCHES.							
2. INTERPRET DIMENSIONS AND TOLERANCES PER AS	SME Y14.5M-1994.						
A DIMENSION DOES NOT INCLUDE MOLD FLASH OR F SHALL NOT EXCEED .006" PER SIDE.	PROTRUSION. MOLD FLASH OR PROTRUSION						
4. ALL VERTICAL SURFACES TO BE 5' MAXIMUM.							
ALLOWABLE DAMBAR PROTRUSION SHALL BE .000	ION. 3 MAXIMUM.						
PIN 1: GND PIN 2: +Vout PIN 3: Vs PIN 4: -Vout							
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TITLE:	DOCUMENT NO: 98ARH99088A REV: D						
5 LD M-PAC	STANDARD: NON-JEDEC						
	S0T1674-1 29 FEB 2016						
Figure 15. SOT1674-1 (Case 1320-02) – page 2							

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# **11 References**

- [1] AN840 Temperature Compensation Methods For The Motorola X-ducer Pressure Sensor Element https://www.nxp.com/docs/en/application-note/AN840.pdf
- [2] AN1984 Handling Freescale Pressure Sensors https://www.nxp.com/docs/en/application-note/AN1984.pdf
- [3] AN3150 Soldering Recommendations for Pressure Sensor Devices https://www.nxp.com/docs/en/application-note/AN3150.pdf
- [4] AN1318 Interfacing Semiconductor Pressure Sensors to Microcomputers https://www.nxp.com/docs/en/application-note/AN1318.pdf
- [5] AN3728 Media Compatibility for IPS PRT Pressure Sensors https://www.nxp.com/docs/en/application-note/AN3728.pdf

# 12 Revision history

#### Table 9. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes				
MPX2053 v.11	20210422	Product data sheet	-	MPX2053 v.10				
Modifications		Redesigned the data sheet to comply with the new identity guidelines of NXP     Semiconductors. Adapted legal texts to the new company name where appropriate.						
MPX2053 v.10	200907	Product data sheet	-	MPX2053 v.10				
Modifications	<ul> <li>Semiconductor</li> <li>Ordering Inforratable.</li> <li>Package image MPXV2053GP.</li> <li><u>Section 8</u>: Rev Pressure Hyster Temperature C</li> <li>Package Dime package, Case</li> </ul>	This data sheet has been formatted to comply with the identity guidelines of NXP Semiconductors. Ordering Information: Removed MPX2053DP, MPX2053GP and MPXV2053GP from the						
MPX2053 v.0	200907	Product data sheet	-	MPX2053 v.8				
Modifications	Deleted reference	nces to device number M	PXV2053GVP throu	ghout the document				

# 13 Legal information

### 13.1 Data sheet status

Document status <sup>[1][2]</sup>	Product status <sup>[3]</sup>	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. [1]

[2] [3] The term 'short data sheet' is explained in section "Definitions".

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