

Freescale Semiconductor Data Sheet: Technical Data

Integrated Silicon Pressure Sensor On-Chip Signal Conditioned, Temperature Compensated and Calibrated

The MPxx5010 series piezoresistive transducers are state-of-the-art monolithic silicon pressure sensors designed for a wide range of applications, but particularly those employing a microcontroller or microprocessor with A/D 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. The axial port has been modified to accommodate industrial grade tubing.

Features

- 5.0% Maximum Error over 0° to 85°C
- Ideally Suited for Microprocessor or Microcontroller-Based Systems
- Durable Epoxy Unibody and Thermoplastic (PPS) Surface Mount Package
- Temperature Compensated over -40° to +125°C
- Patented Silicon Shear Stress Strain Gauge
- Available in Differential and Gauge Configurations
- Available in Surface Mount (SMT) or Through-hole (DIP) Configurations

MPX5010 MPXV5010 MPVZ5010 Series

0 to 10 kPa (0 to 1.45 psi) (0 to 1019.78 mm H₂O) 0.2 to 4.7 V Output

Application Examples

- Hospital Beds
- HVAC
- Respiratory Systems
- Process Control
- Washing Machine Water Level Measurement (Reference AN1950)
- Ideally Suited for Microprocessor or Microcontroller-Based Systems
- Appliance Liquid Level and Pressure Measurement

			ORDE	RING INFO	RMATION			
Device Name	Case No.		# of Ports			Pressure Type		Device
Device Name	Case NO.	None	Single	Dual	Gauge	Differential	Absolute	Marking
Unibody Package (M	PX5010 Series)							
MPX5010DP	867C			•		•		MPX5010DP
MPX5010GP	867B		•		•			MPX5010GP
MPX5010GS	867E		•		•			MPX5010D
MPX5010GSX	867F		•		•			MPX5010D
Small Outline Packag	je (MPXV5010 S	eries)			<u>.</u>	<u>.</u>		
MPXV5010DP	1351			•		•		MPXV5010DP
MPXV5010G6U	482	•			•			MPXV5010G
MPXV5010GC6T1	482A		•		•			MPXV5010G
MPXV5010GC6U	482A		•		•			MPXV5010G
MPXV5010GC7U	482C		•		•			MPXV5010G
MPXV5010GP	1369		•		•			MPXV5010GP
Small Outline Packag	je (Media Resist	ant Gel) (N	MPVZ5010 S	eries)	<u>.</u>	<u>.</u>		
MPVZ5010G6U	482	•			•			MPVZ5010G
MPVZ5010G7U	482B	•			•			MPVZ5010G
MPVZ5010GW6U	1735		•		•			MZ5010GW
MPVZ5010GW7U	1560		•		•			MZ5010GW



Pressure MPX5010 Rev 13, 10/2012



SMALL OUTLINE PACKAGES SURFACE MOUNT

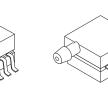
MPXV5010DP

CASE 1351-01

SMALL OUTLINE PACKAGES THROUGH-HOLE







MPXV5010GP CASE 1369-01



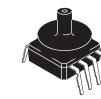
MPXV5010G6U, MPVZ5010G6U CASE 482-01



MPXV5010GC6U/C6T1 CASE 482A-01



MPVZ5010GW7U CASE 1560-02

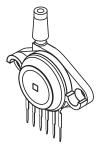


MPXV5010GC7U CASE 482C-03



MPVZ5010G7U CASE 482B-03

UNIBODY PACKAGES



MPX5010GP CASE 867B-04



MPX5010DP CASE 867C-05



MPX5010GS CASE 867E-03



MPX5010GSX CASE 867F-03

Operating Characteristics

Table 1. Operating Characteristics ($V_S = 5.0 \text{ Vdc}$, $T_A = 25^{\circ}\text{C}$ unless otherwise noted, P1 > P2. Decoupling circuit shown in Figure 3 required to meet specification.)

Characteristic		Symbol	Min	Тур	Max	Unit
Pressure Range		P _{OP}	0	—	10 1019.78	kPa mm H ₂ O
Supply Voltage ⁽¹⁾		Vs	4.75	5.0	5.25	Vdc
Supply Current		۱ _o	_	5.0	10	mAdc
Minimum Pressure Offset ⁽²⁾ @ V _S = 5.0 Volts	(0 to 85°C)	V _{off}	0	0.2	0.425	Vdc
Full Scale Output ⁽³⁾ @ V _S = 5.0 Volts	(0 to 85°C)	V _{FSO}	4.475	4.7	4.925	Vdc
Full Scale Span ⁽⁴⁾ @ V _S = 5.0 Volts	(0 to 85°C)	V _{FSS}	4.275	4.5	4.725	Vdc
Accuracy ⁽⁵⁾	(0 to 85°C)	—	_	_	±5.0	%V _{FSS}
Sensitivity		V/P	_	450 4.413	—	mV/mm mV/mm H ₂ O
Response Time ⁽⁶⁾		t _R	_	1.0	—	ms
Output Source Current at Full Scale Output		I _{O+}		0.1	—	mAdc
Warm-Up Time ⁽⁷⁾		-	_	20	—	ms
Offset Stability ⁽⁸⁾		—	—	±0.5	—	%V _{FSS}

1. Device is ratiometric within this specified excitation range.

2. Offset (Voff) is defined as the output voltage at the minimum rated pressure.

3. Full Scale Output (V_{FSO}) is defined as the output voltage at the maximum or full rated pressure.

4. 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 pressure.

5. 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° to 85°C, relative to 25°C.

TcOffset:Output deviation with minimum rated pressure applied, over the temperature range of 0° 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.

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.

7. Warm-up Time is defined as the time required for the product to meet the specified output voltage after the Pressure has been stabilized.

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



Maximum Ratings

Table 2. Maximum Ratings⁽¹⁾

Rating	Symbol	Value	Unit
Maximum Pressure (P1 > P2)	P _{max}	40	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.

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

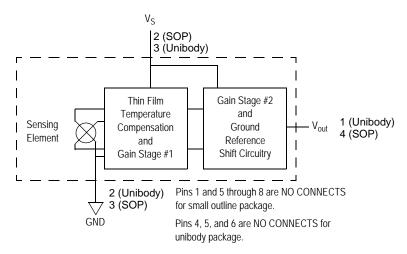


Figure 1. Fully Integrated Pressure Sensor Schematic



ON-CHIP TEMPERATURE COMPENSATION AND CALIBRATION

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.

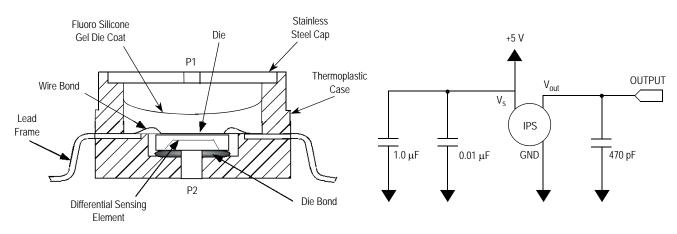
Figure 3 illustrates the Differential or Gauge configuration in the basic chip carrier (Case 482). A fluorosilicone gel isolates the die surface and wire bonds from the environment, while allowing the pressure signal to be transmitted to the sensor diaphragm.

The MPxx5010G 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.

Figure 4 shows the recommended decoupling circuit for interfacing the integrated sensor to the A/D input of a microprocessor or microcontroller. Proper decoupling of the power supply is recommended.

Figure 5 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° to 85°C using the decoupling circuit shown in Figure 4. The output will saturate outside of the specified pressure range.



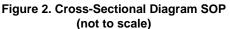


Figure 3. Recommended Power Supply Decoupling and Output Filtering (For additional output filtering, please refer to Application Note AN1646.)

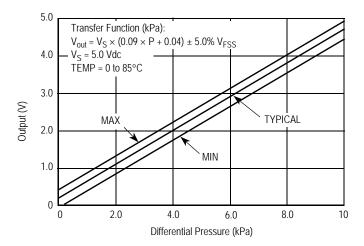


Figure 4. Output vs. Pressure Differential

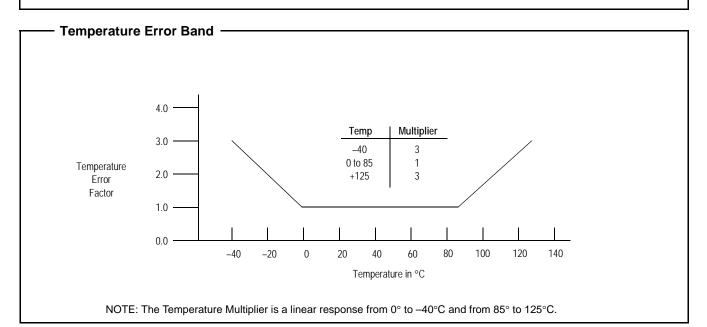


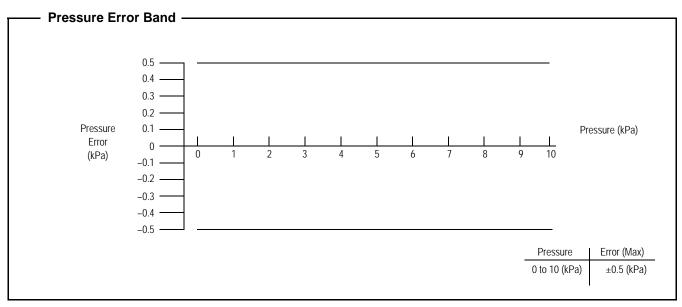
Transfer Function

```
Nominal Transfer Value: V_{out} = V_S \times (0.09 \times P + 0.04)

\pm (Pressure Error \times Temp. Factor \times 0.09 \times V_S)

V_S = 5.0 V \pm 0.25 Vdc
```







PRESSURE (P1)/VACUUM (P2) SIDE IDENTIFICATION TABLE

Freescale 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 fluorosilicone gel which protects the die from harsh media. The MPX pressure sensor is designed to operate with positive differential pressure applied, P1 > P2.

The Pressure (P1) side may be identified by using the table below:

Part Number	Case Type	Pressure (P1) Side Identifier
MPX5010DP	867C	Side with Part Marking
MPX5010GP	867B	Side with Port Attached
MPX5010GS	867E	Side with Port Attached
MPX5010GSX	867F	Side with Port Attached
MPXV5010G6U	482	Stainless Steel Cap
MPXV5010GC6U/6T1	482A	Side with Port Attached
MPXV5010GC7U	482C	Side with Port Attached
MPXV5010GP	1369	Side with Port Attached
MPXV5010DP	1351	Side with Part Marking
MPVZ5010G6U	482	Stainless Steel Cap
MPVZ5010G7U	482B	Stainless Steel Cap
MPVZ5010GW6U	1735	Vertical Port Attached
MPVZ5010GW7U	1560	Vertical Port Attached

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 will self align when subjected to a solder reflow process. It is always recommended to design boards with a solder mask layer to avoid bridging and shorting between solder pads.

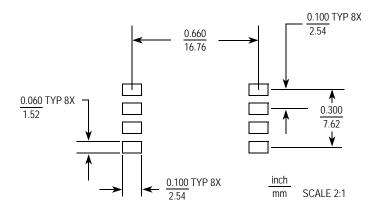
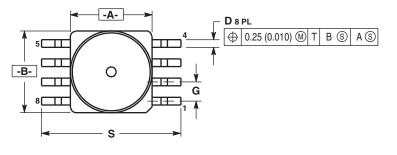
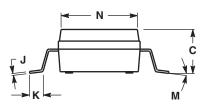
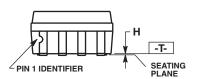


Figure 5. SOP Footprint (Case 482)









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

INCHES MILLIMETERS DIM MIN MAX MIN MAX
 A
 0.415
 0.425
 10.54
 10.79

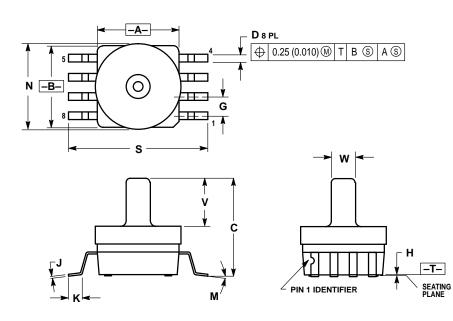
 B
 0.415
 0.425
 10.54
 10.79

 C
 0.212
 0.230
 5.38
 5.84
 D 0.038 0.042 0.96 1.07 G H 0.100 BSC 2.54 BSC 0.002 0.010 0.05 0.25
 J
 0.009
 0.011

 K
 0.061
 0.071

 M
 0°
 7°
 0.23 0.28 1.55 1.80 M 0° 7° N 0.405 0.415 10.29 10.54 S 0.709 0.725 18.01 18.41

CASE 482-01 ISSUE O SMALL OUTLINE PACKAGE



NOTES:

DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.

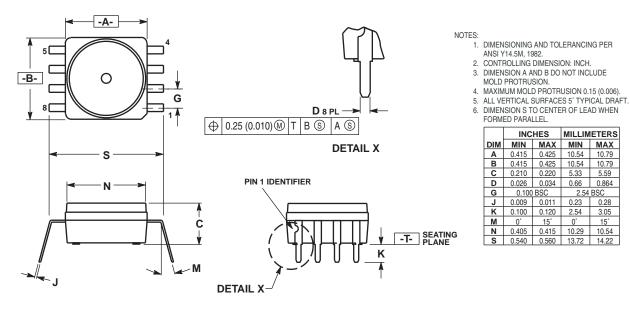
2. CONTROLLING DIMENSION: INCH. 3. DIMENSION A AND B DO NOT INCLUDE MOLD

MINILASION AND PROTRUSION.
 MAXIMUM MOLD PROTRUSION 0.15 (0.006).
 ALL VERTICAL SURFACES 5° TYPICAL DRAFT.

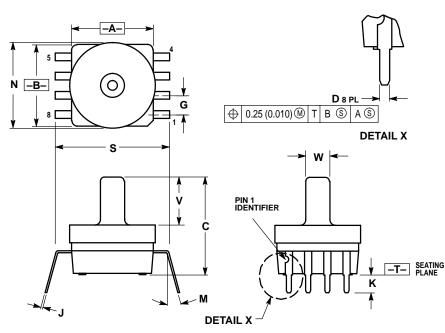
	INCHES		MILLIM	IETERS	
DIM	MIN	MAX	MIN	MAX	
Α	0.415	0.425	10.54	10.79	
В	0.415	0.425	10.54	10.79	
С	0.500	0.520	12.70	13.21	
D	0.038	0.042	0.96	1.07	
G	0.100	BSC	2.54 BSC		
н	0.002	0.010	0.05	0.25	
J	0.009	0.011	0.23	0.28	
Κ	0.061	0.071	1.55	1.80	
М	0 °	7 °	0 °	7 °	
Ν	0.444	0.448	11.28	11.38	
S	0.709	0.725	18.01	18.41	
۷	0.245	0.255	6.22	6.48	
w	0.115	0.125	2.92	3.17	

CASE 482A-0 ISSUE A SMALL OUTLINE PACKAGE





CASE 482B-03 **ISSUE B** SMALL OUTLINE PACKAGE



NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI

MILLIMETERS

INCHES

Α B C

J Κ

0°

 0.415
 0.425
 10.54
 10.79

 0.415
 0.425
 10.54
 10.79

 0.210
 0.220
 5.33
 5.59

0.009 0.011 0.23 0.28

0.100 0.120 2.54 3.05

0°

15°

15°

Y14.5M, 1982. CONTROLLING DIMENSION: INCH. 2. 3. DIMENSION A AND B DO NOT INCLUDE MOLD PROTRUSION.

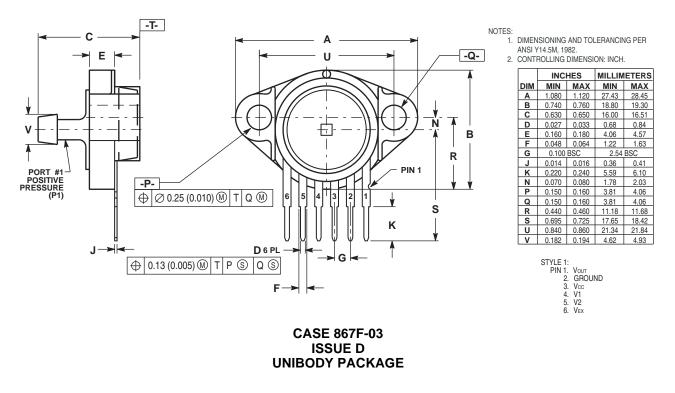
л

MAXIMUM MOLD PROTRUSION 0.15 (0.006). ALL VERTICAL SURFACES 5° TYPICAL DRAFT. DIMENSION S TO CENTER OF LEAD WHEN FORMED PARALLEL. 5. 6.

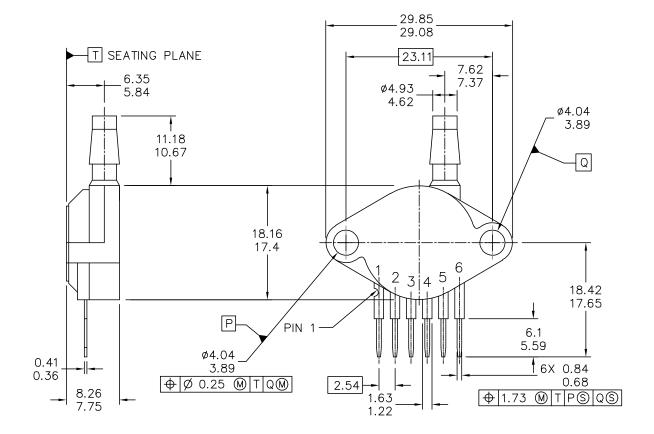
	INC	HES	MILLIN	IETERS
DIM	MIN	MAX	MIN	MAX
Α	0.415	0.425	10.54	10.79
В	0.415	0.425	10.54	10.79
С	0.500	0.520	12.70	13.21
D	0.026	0.034	0.66	0.864
G	0.100	BSC	2.54 BSC	
J	0.009	0.011	0.23	0.28
Κ	0.100	0.120	2.54	3.05
Μ	0 °	15 °	0 °	15 °
Ν	0.444	0.448	11.28	11.38
S	0.540	0.560	13.72	14.22
۷	0.245	0.255	6.22	6.48
W	0.115	0.125	2.92	3.17

CASE 482C-03 **ISSUE B** SMALL OUTLINE PACKAGE









G FREESCALE SEMICONDUCTOR, INC. ALL RIGHTS RESERVED.	MECHANICA	LOUTLINE	PRINT VERSION NO	IT TO SCALE
TITLE:		DOCUMENT NE]: 98ASB42796B	RE∨∶G
SENSOR, 6 LEAD UNIBO	CASE NUMBER	8:867B-04	28 JUL 2005	
AP & GP 01ASB09087B		STANDARD: NO	IN-JEDEC	

PAGE 1 OF 2

CASE 867B-04 ISSUE G UNIBODY PACKAGE



NOTES:

- 1. DIMENSIONS ARE IN MILLIMETERS.
- 2. DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.
- 3. 867B-01 THRU -3 OBSOLETE, NEW STANDARD 867B-04.

STYLE 1:

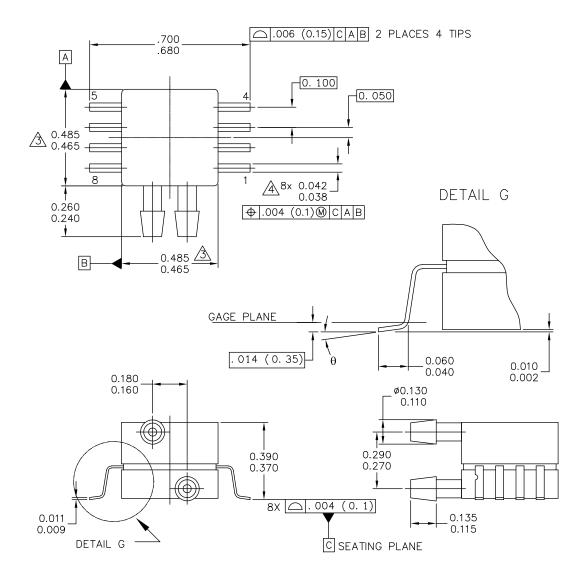
PIN	1:	V OUT
	2:	GROUND
	3:	VCC
	4:	V1
	5:	V2
	6:	V EX

G FREESCALE SEMICONDUCTOR, INC. ALL RIGHTS RESERVED.	MECHANICA	LOUTLINE	PRINT VERSION NO	T TO SCALE
TITLE:		DOCUMENT NO): 98ASB42796B	REV: G
SENSOR, 6 LEAD UNIB	CASE NUMBER	R: 867B-04	28 JUL 2005	
AP & GP 01ASB09087B		STANDARD: NO	DN-JEDEC	

PAGE 2 OF 2

CASE 867B-04 ISSUE G UNIBODY PACKAGE





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8 LD SNSR, DUAL	PORT	CASE NUMBER	8: 1351-01	27 JUL 2005
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PAGE 1 OF 2

CASE 1351-01 ISSUE A SMALL OUTLINE PACKAGE



NOTES:

1. CONTROLLING DIMENSION: INCH

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 PER SIDE.

A 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:	+Vout	PIN 2:	Vs
PIN 3:	Vs	PIN 3:	GND
PIN 4:	-Vout	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

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TITLE:	DOCUMENT NO	: 98ASA99255D	REV: A
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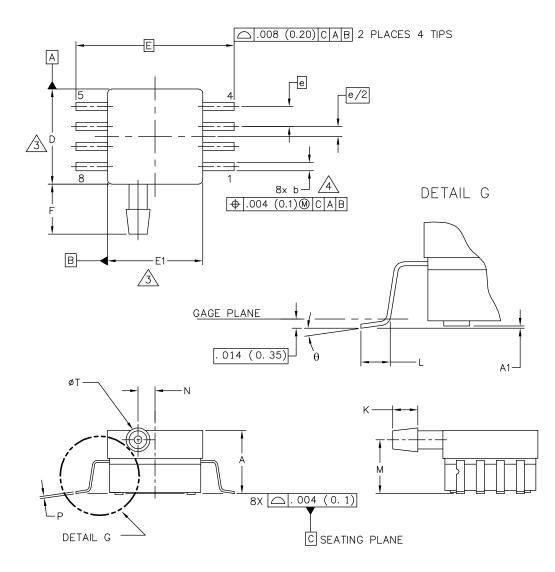
PAGE 2 OF 2

CASE 1351-01 ISSUE A SMALL OUTLINE PACKAGE

MPX5010

Sensors Freescale Semiconductor, Inc.





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8 LD SOP, SIDE PORT		DOCUMENT NO): 98ASA99303D	REV: B
		CASE NUMBER	R: 1369–01	24 MAY 2005
		STANDARD: NO	N-JEDEC	

PAGE 1 OF 2

CASE 1369-01 ISSUE B SMALL OUTLINE PACKAGE



PAGE 2 OF 2

	INC			LIMETERS				LLIMETERS	
DIM	MIN	MAX	MIN	MAX	DIM	MIN	MAX	MIN	MAX
A	. 300	. 330	7.11	7.62	θ	0°	7 °	0 °	7°
A 1	. 002	. 010	0.05	0. 25	-				
b	. 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.	54 BSC	-				
F	. 245	. 255	6. 22	6.47	-				
К	. 120	. 130	3. 05	3. 30	-				
L	. 061	. 071	1. 55	1.80	-				
М	. 270	. 290	6.86	7.36	-				
Ν	. 080	. 090	2.03	2. 28	-				
Ρ	. 009	. 011	0. 23	0. 28	-				
Т	. 115	. 125	2. 92	3. 17	-				
			110						
Ŭ	© FREESCALE SEMICONDUCTOR, INC. ALL RIGHTS RESERVED.				LOU	TLINE	PRINT VER	SION NO	DT TO SCALE
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	8 LD SOP, SIDE PORT				CASE NUMBER: 1369-01 24 MAY 200				24 MAY 2005
					STAI	NDARD: NO	N-JEDEC		

PROTRUSION SHALL BE .008 (0.203) MAXIMUM.

NOTES: 1. CONTROLLING DIMENSION: INCH

NP

Pressure

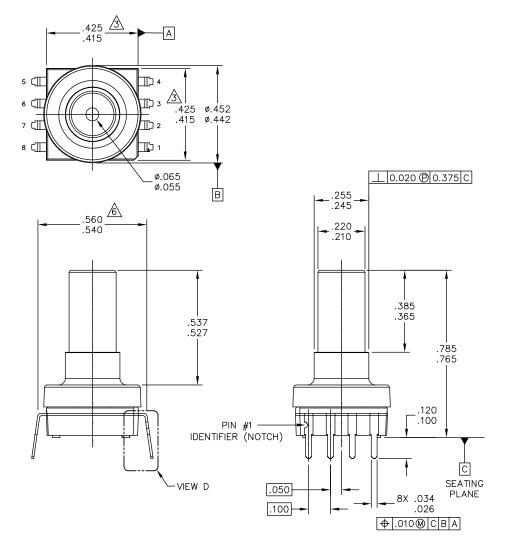
2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.

A DIMENSIONS DO NOT INCLUDE MOLD FLASH OR PPROTRUSIONS. MOLD FLASH AND PROTRUSIONS SHALL NOT EXCEED .006 (0.152) PER SIDE.

PACKAGE DIMENSIONS

A DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR



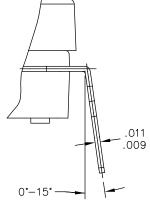


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PAGE 1 OF 3

1560-03 ISSUE C SMALL OUTLINE PACKAGE





VIEW D

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TITLE:		DOCUMENT NO: 98ASA10611D REV: D		REV: D
SO, 8 I/O, .420 X .4	CASE NUMBER	8: 1560–03	25 FEB 2009	
.100 IN PITCH		STANDARD: NO	DN-JEDEC	

PAGE 2 OF 3

CASE 1560-03 ISSUE D SMALL OUTLINE PACKAGE



NOTES:

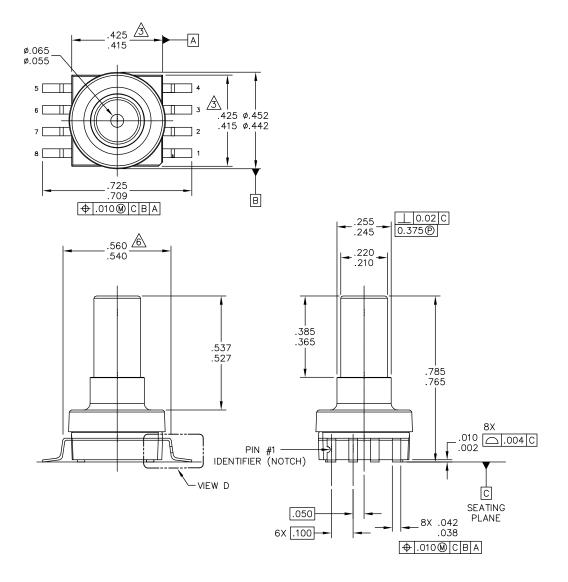
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M 1994.
- 2. CONTROLLING DIMENSION: INCH.
- A. DIMENSIONS DO NOT INCLUDE MOLD PROTRUSION.
- 4. MAXIMUM MOLD PROTRUSION IS .006.
- 5. ALL VERTICAL SURFACES 5' TYPICAL DRAFT.
- A DIMENSION TO CENTER OF LEAD WHEN FORMED PARALLEL.

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TITLE:		DOCUMENT NO: 98ASA10611D REV		REV: D
SO, 8 1/0, .420 X .4	CASE NUMBER: 1560-03 25 FEB 2			
.100 IN PITCH		STANDARD: NO	DN-JEDEC	

PAGE 3 OF 3

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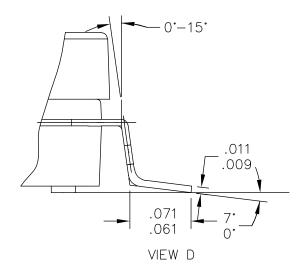


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NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M 1994.
- 2. CONTROLLING DIMENSION: INCH.

A DIMENSIONS DO NOT INCLUDE MOLD PROTRUSION.

- 4. MAXIMUM MOLD PROTRUSION IS .006.
- 5. ALL VERTICAL SURFACES 5' TYPICAL DRAFT.
- A DIMENSION TO CENTER OF LEAD WHEN FORMED PARALLEL.

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MPX5010

Sensors Freescale Semiconductor, Inc.



Pressure

Table 3. Revision History

Revision number	Revision date	Description of changes
13	10/2012	 Deleted references to device number MPVZ5010G6T1, MPVZ5010G6U/T1 and MPVZ5010G6U/ 6T1 throughout the document



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