



US9072 Silicon Pressure Sensor

Features

- ◆ Small size, Low Cost
- ◆ Absolute Version and Gauge Version
- ◆ Constant Current or Constant Voltage Drive
- ◆ Wide Pressure Range Available From 60psi to 1200psi

Applications

- ◆ Tire Pressure Sensor
- ◆ Pressure Gauge
- ◆ Industrial Sensor



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Specification

Type of pressure	Absolute type or gauge type
Dimension	1.5mm × 1.5mm × 1.1mm
Pressure medium	Air or non-corrosive gas

	Min	Nominal	Max	Unit
Excitation Voltage	--	5	10	V
Excitation Current	--	1.00	2.00	mA
Bridge Impedance	4	5	6	kΩ
Span ¹				
60 psi	75	100	125	mV
100 psi	75	100	125	mV
300 psi	120	150	180	mV
800 psi	170	200	230	mV
1200 psi	260	300	340	mV
Offset	-30	±10	+30	mV
TC Span ²	-0.17	-0.22	-0.27	%FS/°C
TC Offset ²	-0.08	-0.02	+0.08	%FS/°C
Linearity ³	-0.3	±0.05	+0.3	%FS
Hysteresis	-0.3	±0.1	+0.3	%FS
Proof Pressure			2X	Rated FS
Burst Pressure ⁴			3X	Rated FS
Operating Temperature	-40		125	°C
Storage Temperature	-55		150	°C

¹ Unless otherwise specified, span is measured at 5.0V Constant Voltage supply at 25°C. Sensor outputs a positive signal when diaphragm deflects downward.

² Measured from 0°C to 50°C @ 5V Constant voltage excitation.

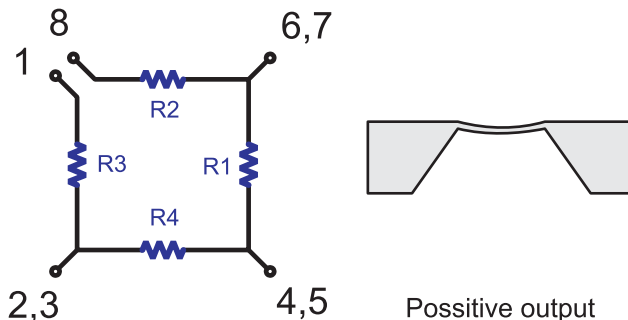
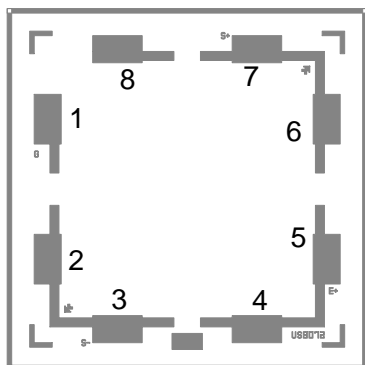
³ Defined as best straight line.

⁴ Maximum burst pressure up to 500psi for high pressure type (300psi)



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Pads Layout and Definition



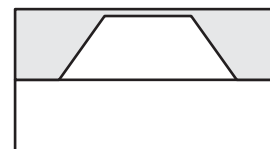
Pad #	Definition
1	Gnd
2	S-
3	S-
4	Ext
5	Ext
6	S+
7	S+
8	Gnd

Ordering Information

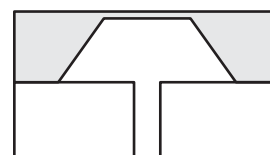
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060	60 psi
100	100 psi
300	300 psi
800	800 psi
K20	1200 psi

A	Absolute type
G	Gauge type



Absolute type



Gauge type