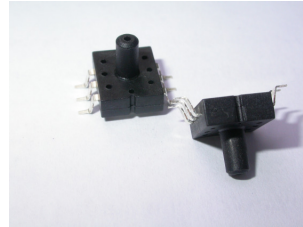


PRESSURE SENSOR SPD005GA_{smd}

This Smartec pressure sensor has an amplified analogue output. The sensor is compensated for offset, sensitivity, temperature drift and nonlinearity. The sensor is available in the range from 5 to 100 psi. Other ranges on request. Available in Gauge and Absolute type. The output is ratiometric to the power supply voltage. @ 5 V power voltage the output span is 0.5 to 4.5 V. The SPD analogue series can be considered as an "analogue" successor of the SPD series.



Electrical Characteristics

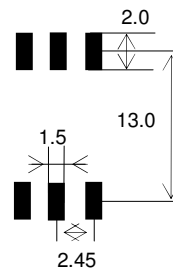
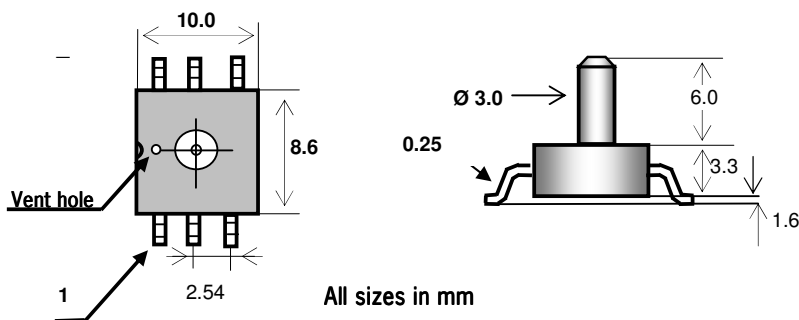
Performance Characteristic at Vcc =5V excitation @ 25 °C.

| Parameter | Min | Typ | Max | Units |
|-----------------------|-------|------|-------|--------|
| Supply Voltage | 4.75 | 5 | 5.5 | V |
| Supply Current | | | 3 | mA |
| Pressure range (fs) | 0 | | 5 | psi |
| Zero Output *) | 0.428 | 0.5 | 0.572 | Vdc |
| Span Output *) | | 4.00 | | Vdc |
| Max output current | | | 1 | mA |
| Accuracy **) | | | ±1.8 | %FS |
| Response time | | 1 | 2 | Ms |
| Pressure overload | | | 3x | Rating |
| Operating temperature | -20 | | 85 | °C |
| Storage temperature | -40 | | 125 | °C |

Wetted materials are: Pyrex Glass, Epoxy and silicon

*) Output is ratiometric to supply voltage

**) all errors included, temperature compensation over 50 °C



| Pin | Description |
|-----|-------------|
| 1 | NC |
| 2 | NC |
| 3 | GND |
| 4 | Vcc |
| 5 | Out |
| 6 | NC |

Do NOT connect NC pins
Apply 100nF between Vcc and Gnd.