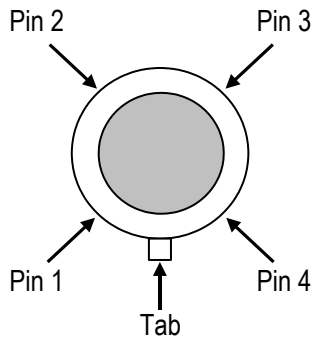

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1. Pin Assignments

Figure 2. Pin Assignments for SGAS701 – Top View



2. Pin Descriptions

Table 1. Pin Descriptions

Pin Number	Name	Description
1	Heater +	Positive input for V_H heater voltage supply
2	Sensor +	High-side of resistive sensor element; positive input for sensing voltage V_C
3	Heater –	Negative (ground) input for V_H heater voltage supply
4	Sensor –	Low-side of resistive sensor element; connects to middle of resistor divider circuit to produce sensing voltage output (V_{OUT})

3. Sensor Specifications

Note: All measurements were made in dry gas at room temperature. Specifications are subject to change.

Table 2. Electrical Specifications

Symbol	Parameter	Conditions	Minimum	Typical	Maximum	Units
P_H	Heater power consumption	$V_H = 5.4V$		600		mW
V_H	Recommended heater voltage	$T_{SENSOR} = 240^{\circ}C$		5.4		VDC
R_H	Heater resistance	At room temperature	28	30	32	Ω
V_C	Recommended sensing voltage		2.5		5.0	VDC
R_{10}	Resistance in 10ppm H_2		30		3000	k Ω
R_{100}	Resistance in 100ppm H_2		10		1000	k Ω
R_{50} / R_{100}	Resolution: Resistance in 50 ppm / Resistance in 100 ppm		> 1.2			