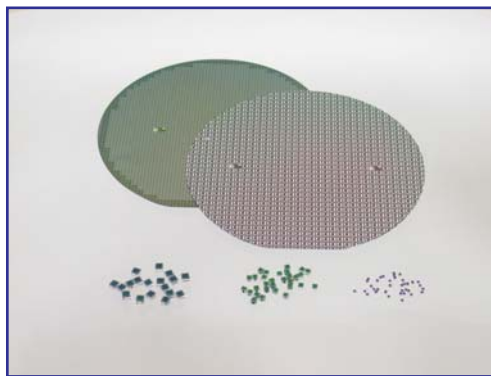




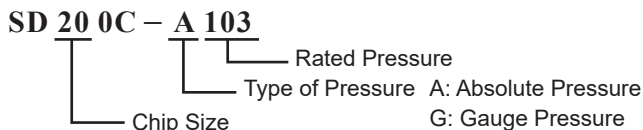
Semiconductor Pressure Sensor Chip / SD Series

FEATURES

- Corresponds to customization from design to mass production.
- Small chip size. (1 mm ~ 3 mm)
- Two model types are available. (absolute pressure and gauge pressure)
- Wide pressure specification. (10k ~ 50M Pa or 0.1 ~ 500 kg/cm²)
- Low cost, high accuracy, high reliability, high breaking pressure resistance.

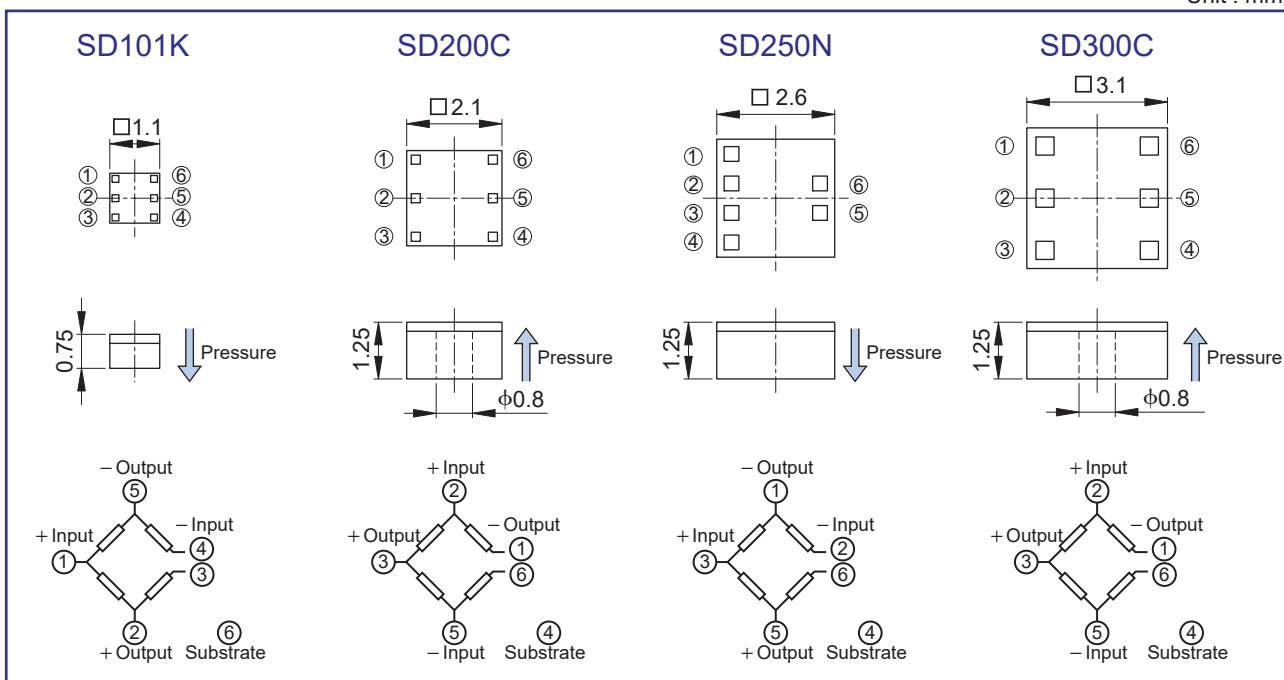


MODEL



EXTERNAL DIMENSIONS AND TERMINAL ARRANGEMENT

Unit : mm



SPECIFICATIONS

Model No.	SD101K-A		SD200C-A or G				SD250N-A					SD300C-G					
	103	353	102	202	502	103	153	103	303	503	104	204	354	504	101	201	501
Rated Pressure [Pa]	1M	3.5M	100k	200k	500k	1M	1.5M	1M	3M	5M	10M	20M	35M	50M	10k	20k	50k
Pressure Type	Absolute		Absolute or Gauge				Absolute					Gauge					
Maximum Overload Pressure	Rated Pressure X 3																
Temperature Range [°C]	-20 ~ 100		-20 ~ 100				-20 ~ 100					-20 ~ 100					
Excitation Current [mA]	1.0		1.0				1.0					1.5	1.0				
Bridge Resistance [kΩ]	4 ± 1		5 ± 1				4.5 ± 1					5 ± 1					
Offset Voltage [mV]	0 ± 25		0 ± 25				0 ± 25					0 ± 30	0 ± 25				
Output Span Voltage [mV]	60 ~ 140		60 ~ 140				50 ~ 80					60 ~ 140					
Linearity [%FS]	± 0.3		± 0.3				± 0.3		± 0.5			± 1.5	± 0.3				
Offset Voltage Temperature Characteristics * 1 [%FS/°C]	± 0.1		± 0.1				± 0.1					± 0.5	± 0.1				
Span Voltage Temperature Characteristics * 1 [%FS/°C]	± 0.05		± 0.05				± 0.05					± 0.2	± 0.05				
Chip Size [mm]	1.1 ^{+0.2} _{-0.1}		2.1 ^{+0.2} _{-0.1}				2.6 ^{+0.2} _{-0.1}					3.1 ^{+0.2} _{-0.1}					
Chip Height [mm]	0.75 ± 0.2		1.25 ± 0.2				1.25 ± 0.2					1.25 ± 0.2					
Stand Hole Diameter (Gauge Pressure) [mm]	-		0.8 ± 0.1				-					0.8 ± 0.1					

NOTE *1 The temperature range is 0 to 60°C. If there is no specification, the temperature range is 25 ± 5°C. These specifications are examples. Please contact us for other specifications.

⚠ Specifications of products are subject to change without notice.

e-sd-p01-11



<http://www.mkt-taisei.co.jp/>

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