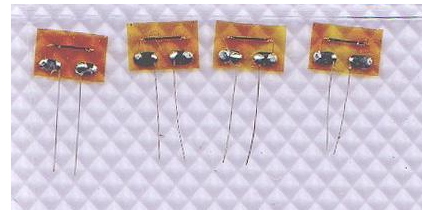
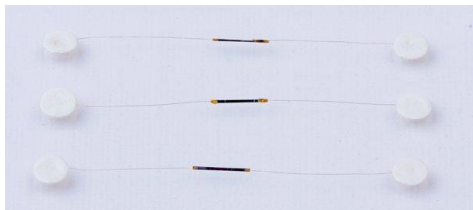




Semiconductor Strain Gauges



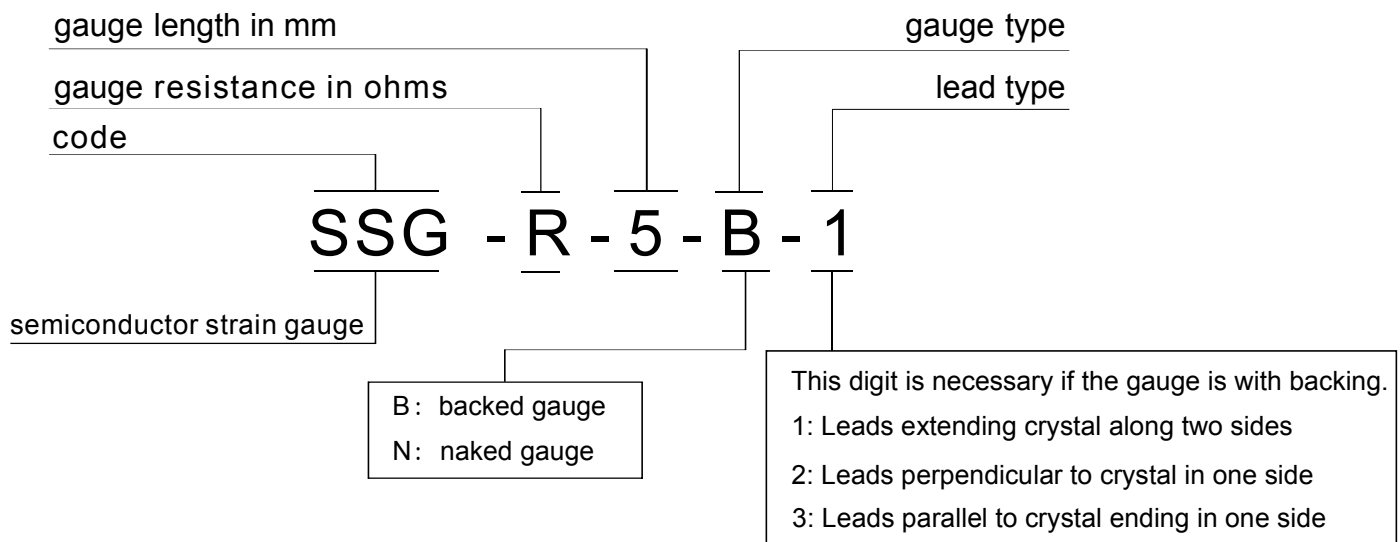
Introduction

The semiconductor strain gauge production using existing international technology. Based on piezoresistive effect, semiconductor strain gauges are made from p-type silicon wafers.

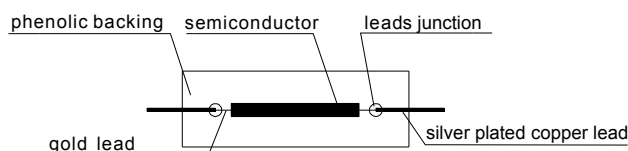
Semiconductor strain gauge is featured with big sensitivity coefficient, small mechanical lag, wide resistance range as well as small transversal effect. Semiconductor strain gauge is mainly used for measuring linear compensation should, all kinds of force sensor of the force distribution, as well as the sensor force - electricity conversion component, in the machinery, construction, aerospace, medical, railway, bridge engineering of static, dynamic stress measurement in a wide range of applications.

We not only manufactures all kinds of standard semiconductor strain gauges, but also can provide special semiconductor strain gauges like medium temperature, or naked types semiconductor strain gauges.

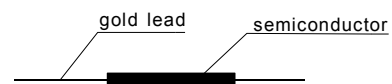
Designation system for strain gauge



Backed Gauges



Naked Gauges

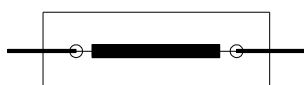


Proza Electronic Technology



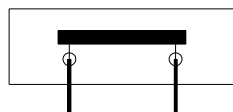
Semiconductor Strain Gauges

Lead type (for backed gauges)



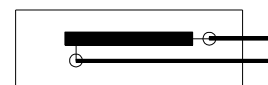
1

(Leads extending crystal along two sides)



2

(Leads perpendicular to crystal in one side)



3

(Leads parallel to crystal ending in one side)

Specifications

Gauge Code	Crystal	Backing LxW(mm)	Gauge Resistance	Gauge Factor	TCR(1/°C)	TCGF(1/°C)	Working Temp.(mA)	Working current(mA)	Strain Limit (μ ε)
SSG-15-5	5x0.32x0.05	8x4	15±5%	80±5%	< 0.1%	< 0.12%	< 80	< 20	6000
SSG-30-5	5x0.32x0.05	8x4	30±5%	80±5%	< 0.1%	< 0.12%	< 80	< 20	6000
SSG-60-5	5x0.32x0.05	8x4	60±5%	100±5%	< 0.1%	< 0.12%	< 80	< 15	6000
SSG-120-5	5x0.30x0.05	8x4	120±5%	110±5%	< 0.15%	< 0.15%	< 80	< 15	6000
SSG-350-5	5x0.28x0.04	8x4	350±5%	130±5%	< 0.35%	< 0.28%	< 80	< 10	6000
SSG-700-5	5x0.26x0.04	8x4	700±5%	140±5%	< 0.35%	< 0.28%	< 80	< 8	6000
SSG-1000-5	5x0.24x0.04	8x4	1000±5%	150±5%	< 0.4%	< 0.3%	< 80	< 5	6000
SSG-15-3.8	3.8x0.24x0.05	5x3	15±5%	80±5%	< 0.1%	< 0.12%	< 80	< 20	6000
SSG-30-3.8	3.8x0.24x0.05	5x3	30±5%	80±5%	< 0.1%	< 0.12%	< 80	< 20	6000
SSG-60-3.8	3.8x0.24x0.05	5x3	60±5%	100±5%	< 0.1%	< 0.12%	< 80	< 15	6000
SSG-120-3.8	3.8x0.24x0.04	5x3	120±5%	110±5%	< 0.15%	< 0.15%	< 80	< 15	6000
SSG-350-3.8	3.8x0.22x0.05	5x3	350±5%	130±5%	< 0.35%	< 0.28%	< 80	< 10	6000
SSG-700-3.8	3.8x0.22x0.05	5x3	700±5%	140±5%	< 0.35%	< 0.28%	< 80	< 8	6000
SSG-1000-3.8	3.8x0.22x0.05	5x3	1000±5%	150±5%	< 0.4%	< 0.3%	< 80	< 5	6000

Notes:

- [1]. For customized request, please consult Proza.
- [2]. All above listed semiconductor strain gauges can also be made “naked” type if request.
- [3]. R: nominal resistance in Ohms (measured @ 23°C).
- [4]. GF: gauge factor (or strain sensitivity) (measured @ 23°C).
- [5]. TCR: temperature coefficient of resistance.
- [6]. TCGF: temperature coefficient of gauge factor.

Proza Electronic Technology