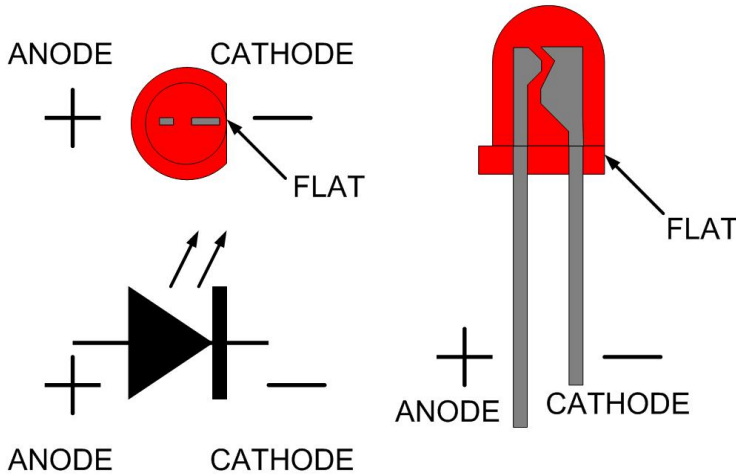


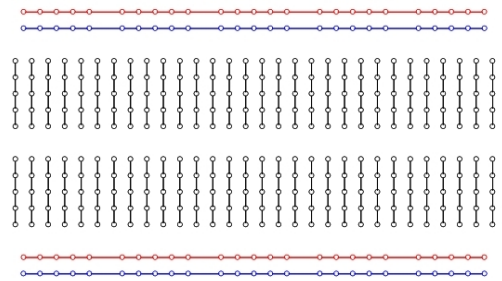
## Opornik (rezystor, )

| Kolor        | Wartość |         | Mnożnik  | Tolerancja ± % |
|--------------|---------|---------|----------|----------------|
|              | 1 pasek | 2 pasek | 3 pasek  | 4 pasek        |
| czarny       |         | 0       | × 1 Ω    |                |
| brązowy      | 1       | 1       | × 10 Ω   | 1              |
| czerwony     | 2       | 2       | × 100 Ω  | 2              |
| pomarańczowy | 3       | 3       | × 1 kΩ   |                |
| żółty        | 4       | 4       | × 10 kΩ  |                |
| zielony      | 5       | 5       | × 100 kΩ | 0,5            |
| niebieski    | 6       | 6       | × 1 MΩ   | 0,25           |
| fioletowy    | 7       | 7       | × 10 MΩ  | 0,1            |
| szary        | 8       | 8       | × 100 MΩ | 0,05           |
| biały        | 9       | 9       | × 1 GΩ   |                |
| złoty        |         |         | × 0,1 Ω  | 5              |
| srebrny      |         |         | × 0,01 Ω | 10             |
| brak         |         |         |          | 20             |

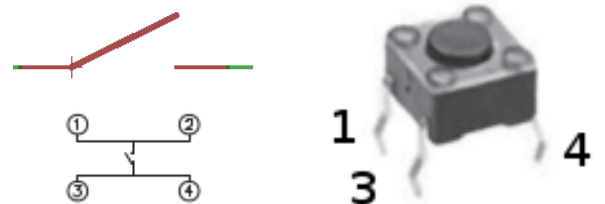
## Dioda świecąca (LED)



## Płytki stykowe



## Przycisk



## Miernik

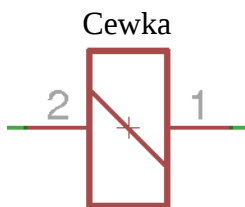
Amperomierz (amper)



Woltomierz (volt)

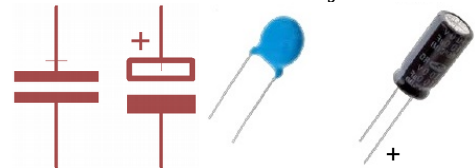


## Przełącznik

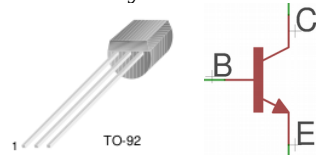


NO – Normalnie otwarty (normally open)  
 NC – Normalnie zamknięty (normally closed)  
 C – Wspólny (common)

## Kondensatory



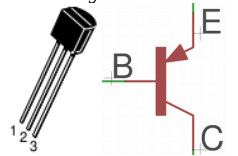
## Tranzystor NPN



BC546-550

1. Collector 2. Base 3. Emitter

## Tranzystor PNP



BC556-558

1. Collector 2. Base 3. Emitter

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