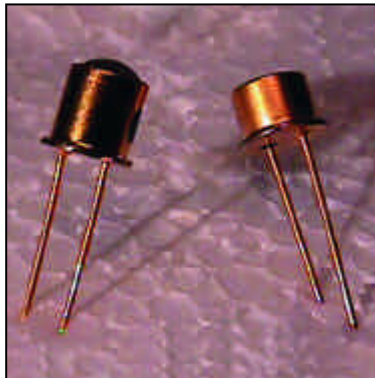
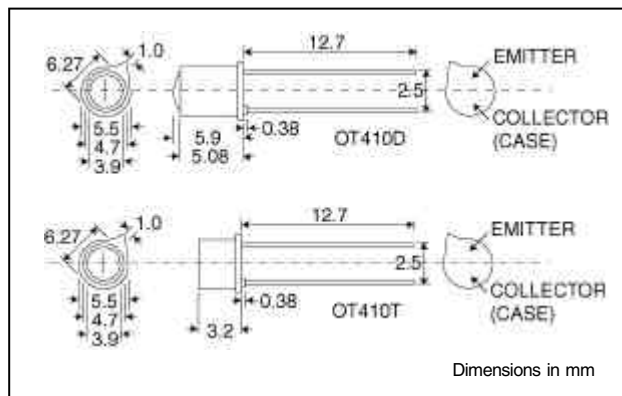


# NPN Silicon Phototransistor Type OT 410D and OT 410T



The OT410 sensors consist of a high gain NPN silicon photo transistor mounted in hermetically sealed TO-46 package. These sensors are ideally suited for hostile environment operation. The OT410D features a domed lens and the OT410T a flat window.

- TO - 46 Package
- Hermetically Sealed Device ideal for hostile environments
- High Sensitivity



### Specifications:

Operating Temperature Range -55°C to 125°C

| PARAMETERS                                  | SYMBOL                                       | MIN.                          | TYP     | MAX.   | UNITS |
|---|--|-------------------------------|---------|--------|-------|
| Light Current<br>H = 1mW/cm <sup>2</sup>    | OT 410D(T)-1<br>OT 410D(T)-2<br>OT 410D(T)-3 | I <sub>C(ON)</sub>            | 3 (1.5) |        | mA    |
|   |  |                               | 5 (2)   | 15 (6) | mA    |
|   |  |                               | 12 (4)  |        | mA    |
| Dark Current V <sub>CE</sub> = 10V, H = 0   | I <sub>CED</sub>                             |                               |         | 40     | nA    |
| Collector Emitter Voltage                   | V <sub>CED</sub>                             | 35                            |         |        | V     |
| Emitter Collector Voltage                   | V <sub>ECD</sub>                             | 6                             |         |        | V     |
| Saturation Voltage I <sub>C</sub> = 1mA     | V <sub>CE(SAT)</sub>                         |                               |         | 0.50   | V     |
| Angular Response                            | OT 410D<br>OT 410T                           | φ                             | 20      |        | Deg.  |
|   |  |                               | 80      |        | Deg.  |
| Rise or Fall Time                           | OT 410D-1                                    | t <sub>r</sub> t <sub>f</sub> | 6       |        | μS    |
| R <sub>L</sub> = 100Ω V <sub>CC</sub> = 10V | OT 410D-6                                    |                               | 8       |        | μS    |

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