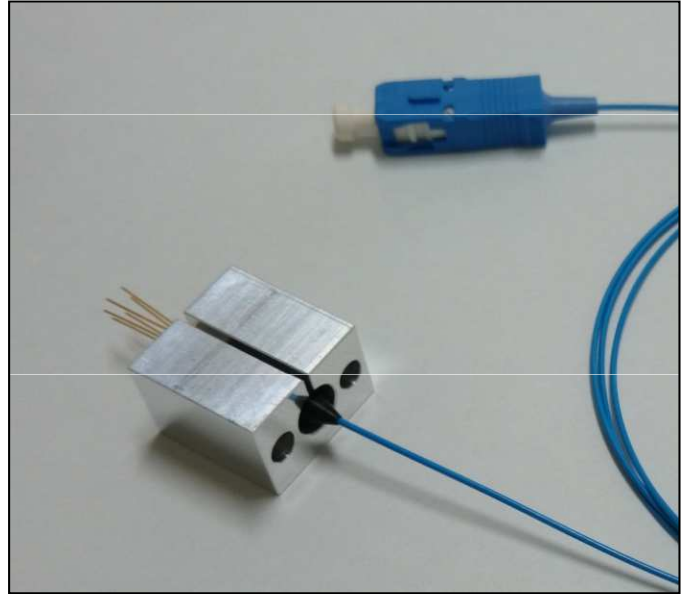


Description

- With TEC and a thermistor
- Cooling ability $\Delta T \geq 40^{\circ}\text{C}$
- Low dark current
- With a heat sink
- Pigtail



Absolute Maximum Ratings

| Parameter | Symbol | Value | Unit | Note |
|--|-----------|------------|--------------------|------------------------|
| Forward current | I_F | 3 | mA | |
| Reverse current | I_R | 3 | mA | |
| TEC current | I_C | 1 | A | |
| Thermistor Allowable power dissipation | P_{th} | 1.5 | mW | |
| Operating temperature | T_{opr} | -40 to +85 | $^{\circ}\text{C}$ | Avoid dew condensation |
| Storage temperature | T_{stg} | -40 to +85 | $^{\circ}\text{C}$ | Avoid dew condensation |

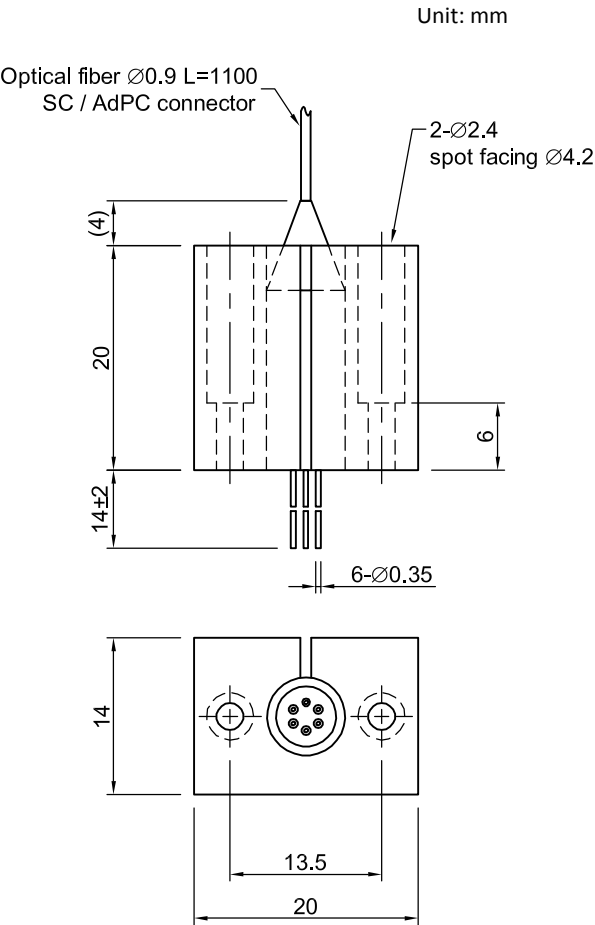
Electrical and Optical Characteristics (Ta=25degC unless otherwise noted)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|----------------------------------|-------------------------|------|------|------|-----------------------|--|
| Bandwidth | BW | 2.5 | - | - | GHz | $V_R = V_B \times 0.9$ |
| Responsivity | R | 0.85 | 0.95 | - | A/W | $\lambda = 1310\text{nm}$, M=1 |
| | | 0.90 | 1.00 | - | | $\lambda = 1550\text{nm}$, M=1 |
| Dark current | I_D | - | - | 10 | nA | $V_R = V_B \times 0.9$ |
| Breakdown voltage | V_B | 40 | 50 | 60 | V | $I_D = 10\mu\text{A}$, Pin= $-\infty$ |
| Temperature coefficient of V_B | $\Delta V_B / \Delta T$ | 0.11 | - | 0.15 | V/ $^{\circ}\text{C}$ | $I_D = 10\mu\text{A}$, Pin= $-\infty$ |
| Chip capacitance | C_{chip} | - | 0.38 | 0.50 | pF | $V_R = V_B \times 0.9$ |
| Total capacitance | C_t | - | 0.68 | 0.80 | pF | $V_R = V_B \times 0.9$ |
| Cooling ability | ΔT | 40 | - | - | $^{\circ}\text{C}$ | $I_C = 0.5\text{A}$ |

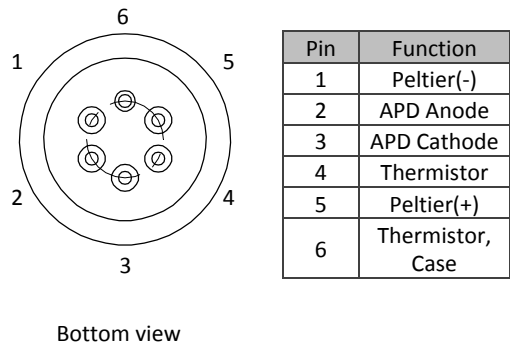
Pigtail

| Parameter | | Unit | Note |
|--------------|-------------------|------|---------------------|
| Fiber type | Single-mode fiber | - | $\Phi 0.9\text{mm}$ |
| Fiber length | 1100 ± 100 | mm | Include Connector |
| Connector | SC connector | - | AdPC |

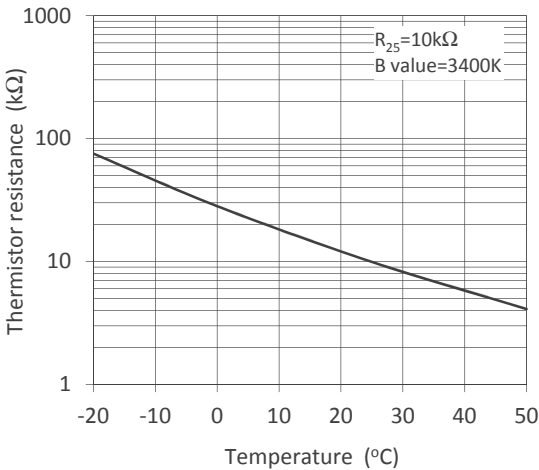
Drawings



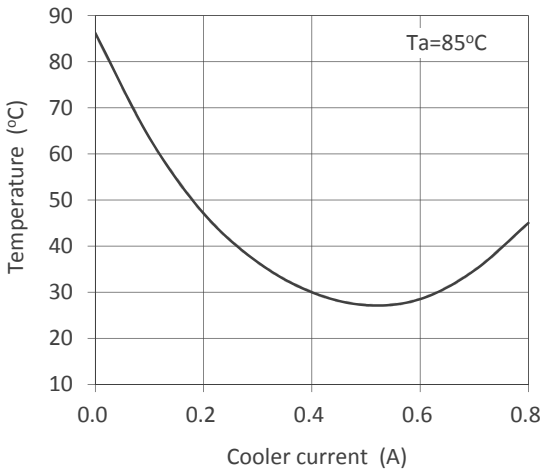
Pin assignment



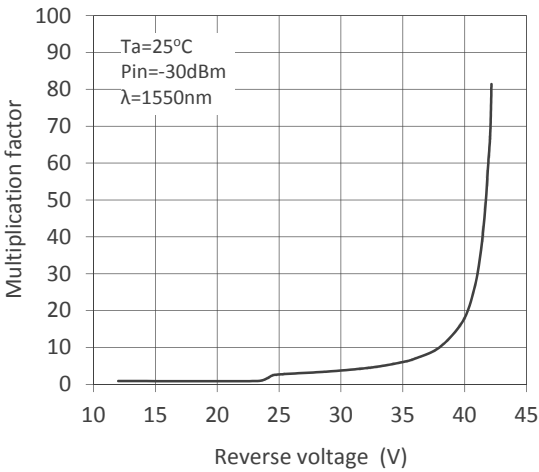
Thermistor Resistance - Temperature



TEC Temperature - Current



Multiplication Factor



- Specifications , characteristics, data, materials, structures specified in this datasheet are subject to change without notice. Please refer to the latest specification before use of the products.
- Products listed in this datasheet comply with the RoHS Directive (EU2002/95/EC).