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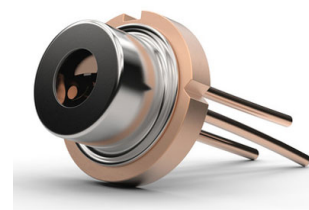


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PRODUCT DATA SHEET

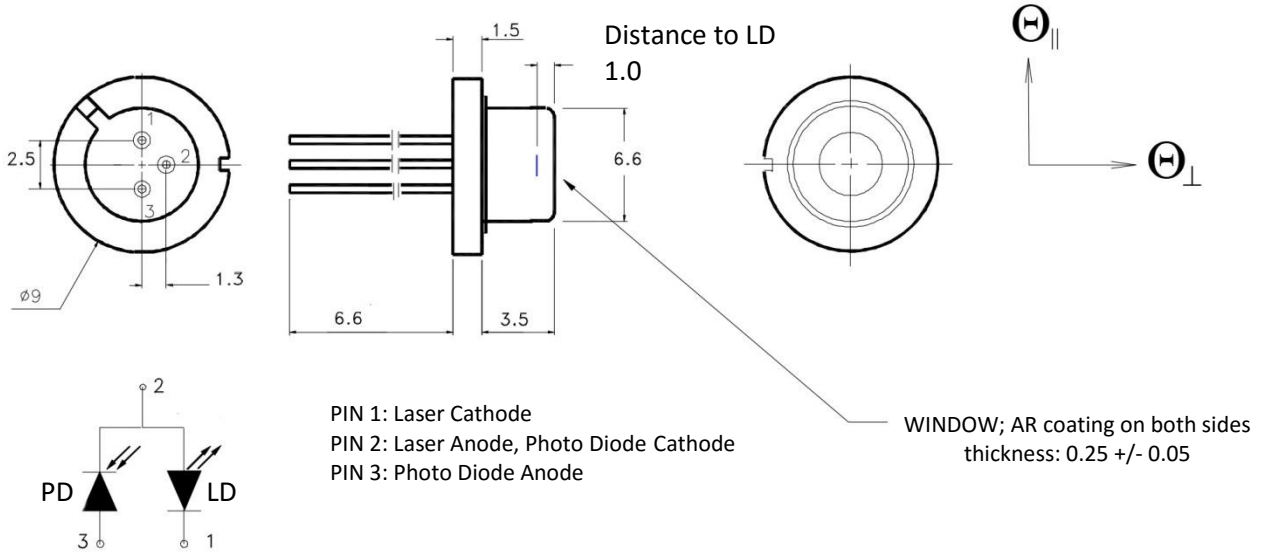
Laser Diode

Model FB-S1300-30SOT148

| Specification | Symbol | Typical | Unit |
|---|--------------------------|--|----------------------------------|
| Laser Emitter | | | |
| Peak Wavelength | λ_{op} | 1300±30 | nm |
| CW Optical Output Power | P_{op} | 30 | mW |
| Operation Current | I_{op} | <145 | mA |
| Operation Voltage | U_{ld} | 1.2±0.2 | V |
| Threshold Current | I_{th} | <45 | mA |
| Beam Divergence (FWHM) | $\theta_{ }$ | 8±2 | degree |
| Beam Divergence (FWHM) | θ_{\perp} | 45±5 | degree |
| Spectrum Half-Width (FWHM) | $\Delta\lambda$ | <4 | nm |
| Emitting Area | $W \times d$ | 5x1 | $\mu\text{m} \times \mu\text{m}$ |
| Wavelength Temperature Coefficient | $\Delta\lambda/\Delta T$ | 4±0.5 | nm/degree |
| Operation Power Temperature Coefficient | $\Delta P/\Delta T$ | 0.15±0.05 | mW/degree |
| Operation Current Temperature Coefficient | $\Delta I/\Delta T$ | 0.4±0.05 | mA/degree |
| Mode Structure | SM | TE₀₀ | - |
| Operation Temperature | T_{op} | 25 | degree |
| Operation Temperature Range | | -40... +50 | degree |
| Storage Temperature Range | | -40... +80 | degree |
| Operation Mode | CW Pulse | Continuous Wave Pulse, $\tau > 5$ ns | - |
| Photo Diode Monitor | | | |
| Monitor Current | | 1-1000 | μA |
| PD Reverse Voltage | | <5 | V |

Note: To guarantee reliable operation of laser diode SOT-148 package must be mounted onto copper carrier with TEC (Peltier element) keeping constant temperature.

Drawings:



PRODUCT WARRANTY:

This product is sold with a full one year warranty. The warranty includes all parts and labor. It is warranted to be free from defects in material and workmanship for a period of one year from the date of shipment. The warranty does not include damage to the product due to customer mishandling or use of the product outside of its specified maximum ratings.

INSTALLATION SUPPORT OR TECHNICAL SUPPORT FOR THIS PRODUCT:

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