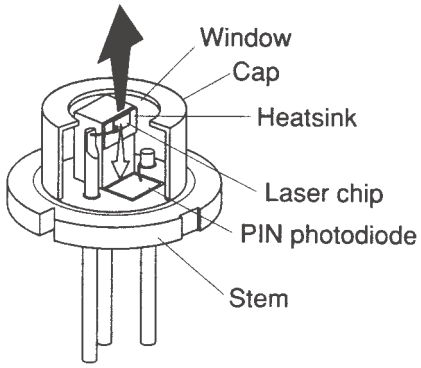
# DL-3148-025

Wellenlänge: 635nm (typ.)
Geringer Schwellstrom: 30mA (typ.)
Max. Ausgangsleistung: 6mW
Niedrige Betriebsspannung: 2,2V typ.

## Anwendungsgebiete:

Laserpointer
Laserwasserwaagen

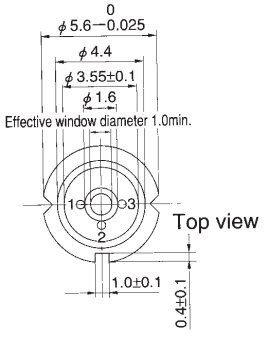


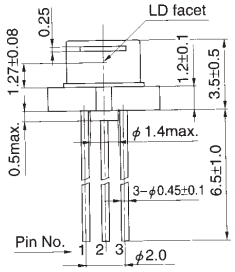

## Maximalwerte

| Parameter | | Symbol | Wert | Einheit |
|---|---|---|---|---|
| Ausgangs-leistung | CW | Po | 6 | mW |
| Sperr-spannung | Laser | VR | 2 | V |
| | PIN | VR | 30 | V |
| Betriebstemperatur | | Topr | -10...+40 | °C |
| Lagertemperatur | | Tstr | -40...+85 | °C |

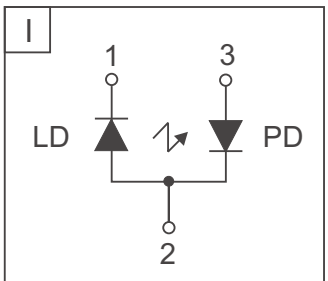
## Elektrische und optische Eigenschaften bei 25°C

| Parameter | | Symbol | Betriebsbedingung | Min. | Typ. | Max. | Einheit |
|---|---|---|---|---|---|---|---|
| Schwellstrom | | Ith | CW | --- | 20 | 35 | mA |
| Betriebsstrom | | Iop | Po=5mW | --- | 30 | 45 | mA |
| Betriebsspannung | | Vop | Po=5mW | --- | 2,2 | 2,4 | V |
| Wellenlänge | | λ | Po=5mW | --- | 635 | 640 | nm |
| Strahl-divergenz | Senkrecht | θ ⊥ | --- | 25 | 30 | 35 | deg. |
| | Parallel | θ ∥ | --- | 6 | 8 | 10 | deg. |
| Strahl-abweichung | Senkrecht | Δ θ ⊥ | --- | --- | --- | +/-3 | deg. |
| | Parallel | Δ θ ∥ | --- | --- | --- | +/-3 | deg. |
| Differentieller Wirkungsgrad | | dPo/dIop | Po=5mW | --- | 0,5 | --- | mW/mA |
| Monitordiodenstrom | | Im | Po=5mW | 0,08 | 0,2 | 0,5 | mA |
| Astigmatismus | | As | Po=5mW | --- | 8 | --- | µm |




5.6mm φ stem




- power supply system



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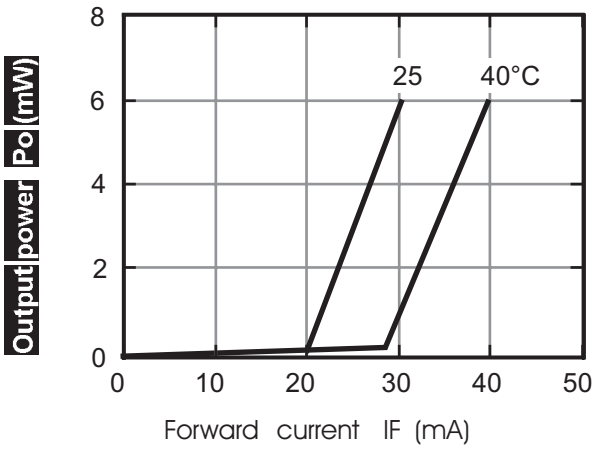
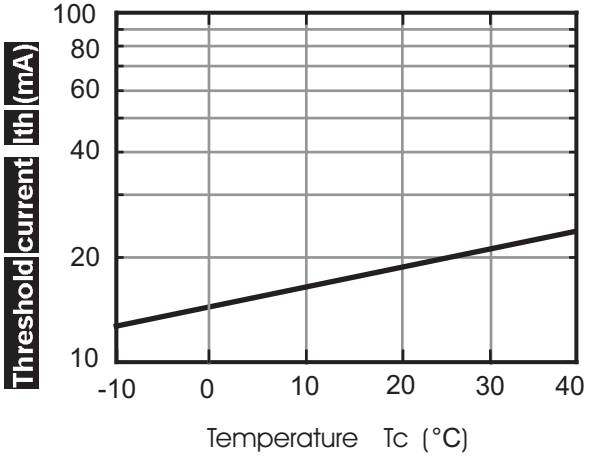
# Characteristics

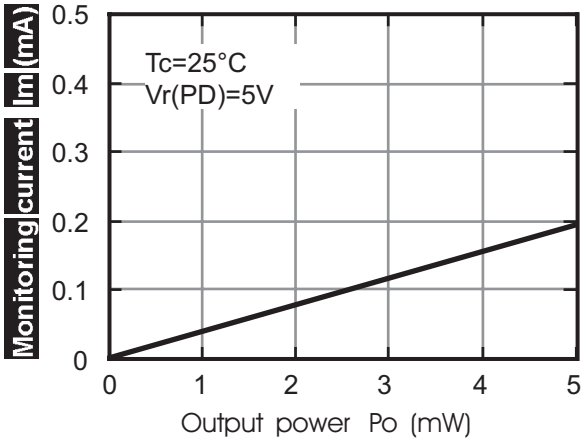
Output power vs. Forward current



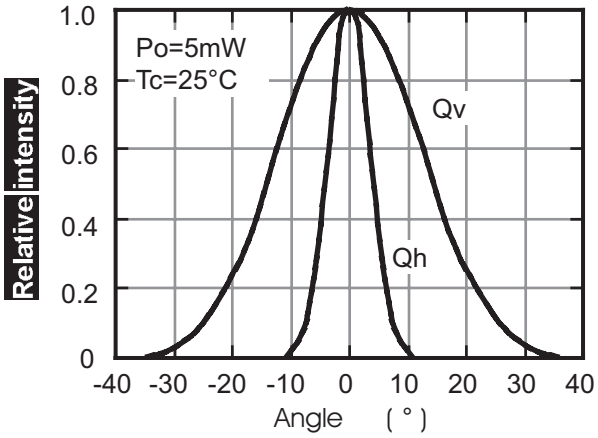

Threshold current vs. Temperature



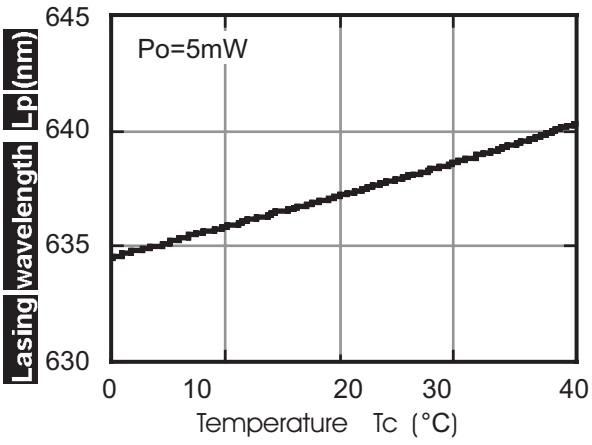

Monitoring current vs. Output power



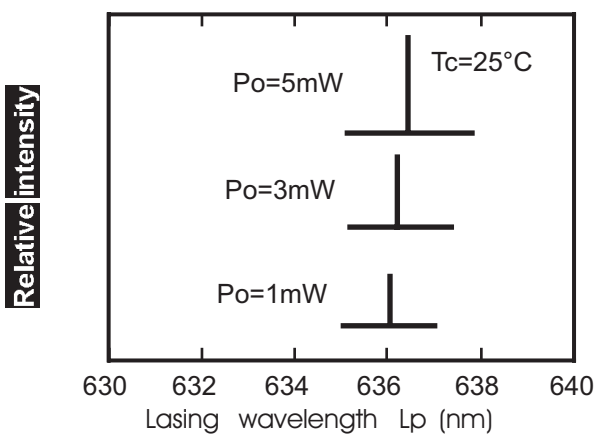

Beam divergence




Lasing wavelength vs. Temperature




Lasing wavelength vs. Output power




This is typical data and it may not represent all products.



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This is an example of MTTF data

# Laserdiode DL-3148-025