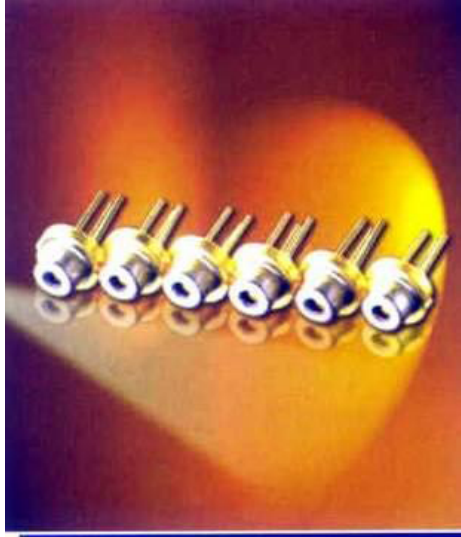


# 635nm visible Laser Diodes

Type: AL635T5



**Features:**

- Visible light: 635 ± 10nm
- Low threshold current: ≤ 25mA
- Output power: ≥ 5mW (CW)
- Index guided single transverse mode
- Standard TO-18 package (φ = 5.6mm)
- 50% high temperature operation
- Low astigmatism high reliability

**Applications:**

- Indicator.
- Point.

**Absolute Maximum Ratings(T<sub>c</sub>=25 °C)**

Parameter	Units	Symbol	Rating
Optical power	mW	P <sub>o</sub>	≥ 7
Operating temperature	°C	T <sub>op</sub>	-10~50
Storage temperature	°C	T <sub>stg</sub>	-40~85
LD reverse voltage	V	V <sub>RLD</sub>	≤ 2
PD reverse voltage	V	V <sub>RPD</sub>	≥ 30

**Optical and electrical characteristics(T<sub>c</sub>=25 °C) ±1%**

Parameter	Symbol	Typical	Unit
Lasing wavelength	λ	635 ± 10	nm
Optical power	P <sub>o</sub>	≥ 5	mw
Threshold current	I <sub>th</sub>	≤ 25	mA
Operating current	I <sub>op</sub>	≤ 50	mA
Operating voltage	V <sub>op</sub>	≤ 2	V
Monitoring current	I <sub>m</sub>	≥ 0.1	mA
Beam divergence	θ <sub>∥</sub>	≤ 12	deg
	θ <sub>⊥</sub>	≤ 35	

**Note:**

1. ESD precautions must be taken when handling this product
2. Visible laser radiation avoid direct exposure to beam

