

## Product Specifications

### 635nm Single Mode Laser



#### Feature

- Up to 30mW CW out put power
- High Quality, Reliability, & Performance

#### Applications

- Graphics
- Medical/Dental
- Industrial
- Defense

#### Description:

High brightness, high quality, and high reliability are the foundation of our single mode product line. LaseOptics 635nm multi mode laser diodes are available with up to 30mW of continuous output power from a single emitter chip. LaseOptics trademark laser chip design creates un-measurable degradation and long lifetimes that make our chips among the most reliable in the industry today. Our 635 nm single mode line serves a broad range of applications including solid state pumping, graphics, medical, dental, industrial and defense.

Packaging option include industry standard C-mount, B-mount, and 5.6mm and 9mm. More production options are available upon request.

**Contact us today how LaseOptics can help your research and production!**

### Standard Product Specifications for 635nm Single-mode Diodes

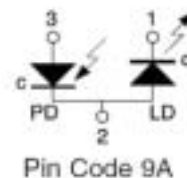
#### Universal Specifications

Parameter	Unit	Min.	Typ.	Max.
Wavelength Tolerance	nm	-	3	5
Spectrum FWHM	nm	-	3	5
Operating Voltage (V <sub>o</sub> )	V	-	2.4	2.7
Operating Current (I <sub>o</sub> )	A		90mA	110mA
Life Time	Hours	10,000	-	-
Vertical Far Field	Deg. FWHM	25	30	40
Parallel Far Field	Deg. FWHM	6	7	10
Threshold (I <sub>th</sub> )	A	-	50mA	70mA
Slope Efficiency (dP/dI)	W/A	0.8	0.9	-
Storage Temperature	°C	-40	-	85
Operating Temperature (T <sub>op</sub> )	°C	-20	25	40
Lead Soldering Temp. (5sec)	°C	-	-	250

Output Power (W)	Threshold (A) Typ./Min	Operating Current (A) Typ./Max
25 mW	50/60mA	90/110mA

**Pin Description**

- 1 laser cathode
- 2 common case
- 3 monitor diode anode



- Note:
- 1) Specifications are subject to Change without notice.
  - 2) All LaseOptics product are TE polarized
  - 3) Threshold current varies with chip dimension, most common threshold are given.
  - 4) All LaseOptics products are RoHS Compliant

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**LaseOptics:** Laser applications in science & engineering with Optics