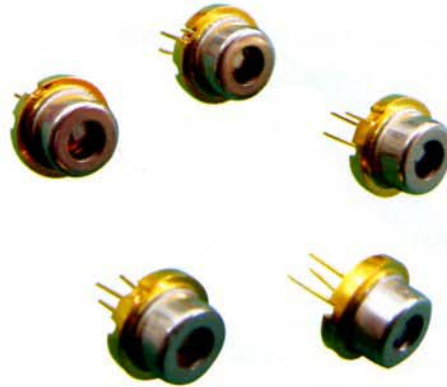


## 808nm Laser Diodes

### Features:

- > Wavelength 808nm
- > High power output with CW, Multi-mode
- > Standard TO18, TO5, TO3 package



### Applications:

- > Pumping
- > Medical laser treatment
- > Illuminations

### Absolute Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNIT
Reverse Voltage	$V_r$	2.0	V
Operating Temperature	$T_{op}$	+10~+30	°C
Storage Temperature	$T_{stg}$	-20 ~ +80	°C
Lead Soldering Temperature (10 sec.)	$T_{is}$	260	°C

Specifications	GCSLD-05 -200m-5	GCSLD-05 -500m-8	GCSLD-05 -001-8	GCSLD-05 -002-4
Center Wavelength@25°C	808±3nm	808±3nm	808±3nm	808±3nm
Spectral width (FWHM)	≤ 3nm	≤ 3nm	≤ 3nm	≤ 3nm
Output Power (Typ.)	200mW	500mW	1W	2W
Emitter Area	50x1 μm	50x1 μm	100x1 μm	200x1 μm
Beam Divergence (FWHM)	40° <sub>x</sub> x 10° <sub>  </sub>	40° <sub>x</sub> x 10° <sub>  </sub>	40° <sub>x</sub> x 10° <sub>  </sub>	40° <sub>x</sub> x 10° <sub>  </sub>
Temperature Coefficient of Wavelength	0.3nm/°C	0.3nm/°C	0.3nm/°C	0.3nm/°C
Slope Efficiency	0.95W/A	0.95W/A	1W/A	1W/A
Threshold Current (Typ.)	100mA	150mA	250mA	500mA
Operating Current (Typ.)	0.3A	0.65A	1.25A	2.5A
Operating Voltage	≤ 2.2V	≤ 2.2V	≤ 2.2V	≤ 2.2V
Series Resistance	0.3Ω	0.3Ω	0.3Ω	0.3Ω
Package Style	TO18	TO5	TO5	TO3