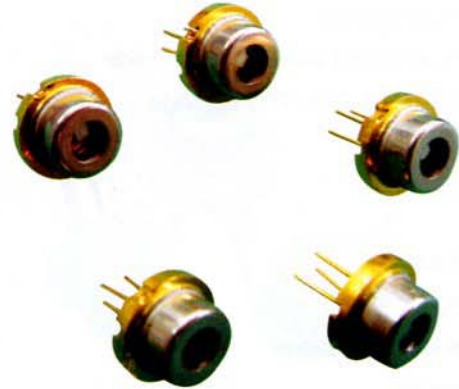


980nm Laser Diodes

Features:

- Wavelength 980nm
- High power output with CW, Multi-mode
- Standard 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-06-200m-8	GCSLD-06-500m-8	GCSLD-06-002-4
Center Wavelength@25°C	980±5nm	980±5nm	980±5nm
Spectral Width (FWHM)	≤ 3nm	≤ 3nm	≤ 3nm
Output Power (Typ.)	200mW	500mW	2W
Emitter Area	50x1 μm	50x1 μm	200x1 μm
Beam Divergence (FWHM)	45° _⊥ x 12° _∥	45° _⊥ x 12° _∥	45° _⊥ x 12° _∥
Temperature Coefficient of wavelength	0.34nm/°C	0.34nm/°C	0.34nm/°C
Slope Efficiency	0.85W/A	0.85W/A	0.9W/A
Threshold Current (Typ.)	120mA	150mA	500mA
Operating Current (Typ.)	0.5A	0.85A	2.5A
Operating Voltage	≤ 2.2V	≤ 2.2V	≤ 2.2V
Series Resistance	0.8Ω	0.5Ω	0.3Ω
Package Style	TO5	TO5	TO3