

650nm Laser Diodes

Features:

- Wavelength 650nm
- High brightness
- Single mode
- Standard TO18 package

Applications:

- Medical laser treatment
- Laser Indicator



Absolute Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNIT
Reverse Voltage	V_r	2.0	V
Operating Temperature	T_{op}	+10~+35	°C
Storage Temperature	T_{stg}	-20~+80	°C
Lead Soldering Temperature (10 sec.)	T_{ls}	260	°C

Specifications

GCSLD-10-080m-5

Center Wavelength@25°C	650±10nm
Spectral Width (FWHM)	> 3nm
Output Power	≥ 80mW
Emitter Area	10x1 μm
Beam Divergence (FWHM)	17° ₁ x 8° ₁₁
Temperature Coefficient of Wavelength	0.2nm/°C
Slope Efficiency	0.95W/A
Threshold Current (Typ.)	≤ 65mA
Operating Current (Typ.)	≤ 150mA
Operating Voltage	≤ 2.5V
Series Resistance	0.6Ω
Package Style	TO18