



635nm 20mw Laser Diodes

Features:

Visible light: $635 \pm 10\text{nm}$

Low threshold current: $\leq 40\text{mA}$

Output power: $\geq 12\text{mW (CW)}$

Index guided single transverse mode

Standard TO-18 package ($\Phi=5.6\text{mm}$)

50°C high temperature operation

Low astigmatism high reliability

Applications:

Indicator.

Point.

Absolute Maximum Ratings($T_c=25^\circ\text{C}$)

Parameter Units Symbol Rating

Optical power mW $P_o \geq 12$

Operating temperature $^\circ\text{C}$ $T_{op} -10 \sim 50$

Storage temperature $^\circ\text{C}$ $T_{stg} -40 \sim 85$

LD reverse voltage V $V_{RLD} \leq 2.3$

PD reverse voltage V $V_{RPD} \geq 30$

Optical and electrical characteristics($T_c=25^\circ\text{C}$) $\leq \geq \pm$

Parameter Symbol Typical Unit

Lasing wavelength λ 635 ± 10 nm

Optical power $P_o \geq 12$ mw

Threshold current $I_{th} \leq 40$ mA

Operating current $I_{op} \leq 70$ mA

Operating voltage $V_{op} \leq 2.3$ V

Monitoring current $I_m \geq 0.2$ mA