

Features

- Good FFP performance
- Higher power
- High efficiency

Applications

- Excitation
- Bioanalytical
- Photolithography, Curing and others

Absolute Maximum Ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_o	CW	155	mW
Reverse voltage (LD)	V_{RL}	-	2	V
Reverse voltage (PD)	V_{RD}	-	30	V
Case temperature	T_c	-	-10 to +75	°C
Storage temperature	T_s	-	-40 to +85	°C
Soldering temperature	T_{Sld}	-	350	°C

Electrical and Optical Characteristics

Parameter	Symbol	Min	Typ.	Max	Unit	Condition
Threshold current	I_{th}	-	40	70	mA	-
Operating current	I_{op}	-	130	180	mA	P _o =150 mW
Operating voltage	V_{op}	-	5	6	V	
Peak wavelength	λ	400	405	410	nm	
Parallel divergence angle	$\theta_{ }$	6	9	12	°	
Perpendicular divergence angle	θ_{\perp}	15	19	23	°	
Parallel FFP deviation angle	$\Delta\theta_{ }$	-3	0	3	°	
Perpendicular FFP deviation angle	$\Delta\theta_{\perp}$	-3	0	3	°	
Differential efficiency	η	1.2	1.7	-	mW/mA	$\frac{140mW}{I(150)-I(10mW)}$
Monitor current	I_m	0.1	0.4	0.8	mA	P _o =150 mW, V _{RD} =5V

