

Features

- Good FFP performance
- Higher power
- High efficiency
- Narrow wavelength: 785 ± 2 nm

Applications

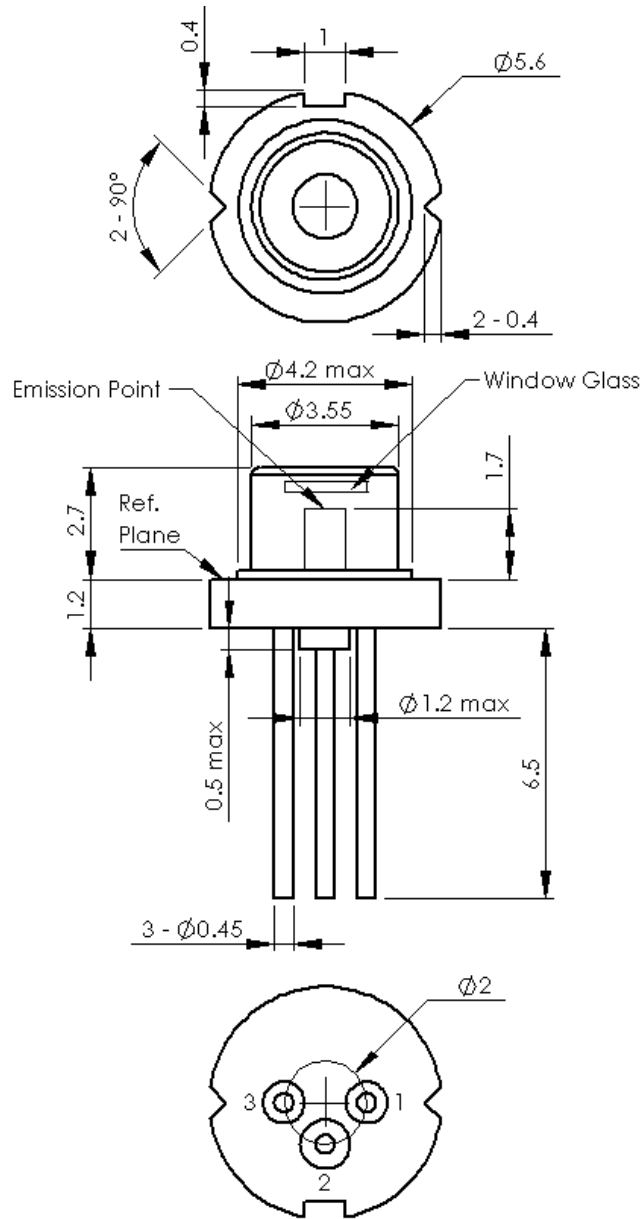
- Excitation
- Bioanalytical
- Photolithography, Curing and others

Absolute Maximum Ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P _O	CW	120	mW
Light output power	P _P	Pulse	280	mW
Reverse voltage (LD)	V _{RL}	-	2	V
Reverse voltage (PD)	V _{RD}	-	30	V
Case temperature	T _C	-	-10 to +70	°C
Storage temperature	T _S	-	-40 to +85	°C

Electrical and Optical Characteristics

Parameter	Symbol	Min	Typ.	Max	Unit	Condition
Threshold current	I _{th}	-	35	55	mA	-
Operating current	I _{op}	-	135	190	mA	P _o =100 mW
Operating voltage	V _{op}	-	2.3	2.8	V	
Peak wavelength	λ	783	785	787	nm	
Parallel divergence angle	θ	6	9	12	°	
Perpendicular divergence angle	θ _⊥	13	16	19	°	
Parallel FFP deviation angle	Δθ	-3	0	3	°	
Perpendicular FFP deviation angle	Δθ _⊥	-3	0	3	°	
Differential efficiency	η	0.8	1.0	-	mW/mA	$\frac{100\text{mW}}{I(100\text{mW})-I(5\text{mW})}$



WLD-100-785-A

WLD-100-785-D

