

STU-HL40113MG

405nm /600mW Violet Laser Diode

Features

- Optical output power: 600mW (CW)
- Violet Lasing: 400~410nm
- Low operating current: 500mA Typ.
- Low operating voltage: 4.2V Typ.
- Package: 5.6mm
- Multiple transverse mode
- TE mode oscillation.



Applications

- Direct Imaging for PCB
- Industry
- Bio & Medical
- Measurement

Absolute Maximum Ratings(Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	P _o	700	mW
LD Reverse Voltage	V _{R(LD)}	5	V
PD Reverse Voltage	V _{R(PD)}	20	V
Operating Temperature	T _{opr}	0 ~ +30	°C
Storage Temperature	T _{stg}	-40 ~ +85	°C

* Monitor PD for initial checking purpose only

Optical and Electrical Characteristics(Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	I _{th}	70	110	180	mA	-
Operating current	I _{op}	450	500	650	mA	P _o =600mW
Operating voltage	V _{op}	3.8	4.2	4.6	V	P _o =600mW
Beam divergence Parallel to the junction	θ _{//}	5	13	25	°	P _o =600mW, Full angle 1/e ²
Beam divergence Perpendicular to the junction	θ _⊥	30	45	50	°	P _o =600mW, Full angle 1/e ²
Lasing Wavelength	λ _p	400	405	410	nm	P _o =600mW

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Outline & Internal Circuit

