



BLUE-VIOLET LASER DIODE

DL-5146-101S

Tentative



Ver.1 Oct. 2007

Features

- Short wavelength : 405 nm (Typ.)
- Package : $\phi 5.6$ mm with PD

Applications

Industrial Use

Absolute Maximum Ratings

(Tc=25°C)

Parameter	Symbol	Ratings	Unit
Light Output	CW Po (CW)	45	mW
Reverse Voltage	Laser VR	2	V
Operating Temperature ¹⁾	Topr	0 to +75	°C
Storage Temperature	Tstg	-40 to +85	°C

1) Case temperature.

Electrical and Optical Characteristics

2) 3) 4) 6)

(Tc=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	
Threshold Current	I _{th}	CW	-	35	55	mA	
Operating Current	I _{op}	Po=40mW	-	70	100	mA	
Operating Voltage	V _{op}	Po=40mW	-	5.2	5.7	V	
Lasing Wavelength	Lp	Po=40mW	395	405	415	nm	
Beam ⁵⁾ Divergence	Perpendicular	Qv	Po=40mW	16	19	23	°
	Parallel	Qh	Po=40mW	6	8	12	°
Off Axis Angle	Perpendicular	dQv	Po=40mW	-2	-	2	°
	Parallel	dQh	Po=40mW	-2	-	2	°
Differential Efficiency	SE	Po=40mW	0.8	1.2	-	mW/mA	
Monitoring Output Current	I _m	Po=40mW	0.1	0.3	1.0	mA	

2) Initial values 3) All the above values are evaluated with Tottori Sanyo's measuring apparatus
 4) Reference values 5) Full angle at half maximum 6) Measurement condition : CW

Note : The above product specification are subject to change without notice.

