

Blue-Violet Laser Diode

Part No: LD-405-14A-70-E-2



Features

- ※ Short wavelength: $\lambda=405\text{nm}$ (Type)
- ※ Output optical power: 140mW
- ※ Package: T0-18($\Phi 5.6\text{mm}$)

Applications

- ※ Industrial Use

Absolute Maximum Rating at $T_c=25^\circ\text{C}$

Items	Symbols	Values	Unit
Optical Output Power	Po	150	mW
Laser Diode Reverse Voltage	V	5	V
Operating Temperature	Topr	-10~+70	$^\circ\text{C}$
Storage Temperature	Tstg	-40~+80	$^\circ\text{C}$

Electrical and Optical Characteristics at $T_c=25^\circ\text{C}$

Items	Symbols	Min	Type	Max.	Unit	Condition
Optical Output Power	Po	-	-	150	mW	CW
Threshold Current	Ith	-	35	50	mA	CW
Operating Current	Iop	-	135	150	mA	Po=140mW
Slope Efficiency	η	-	1.3	1.6	mW/mA	CW
Operating Voltage	Vop	-	4.8	5.5	V	Po=140mW
Lasing Wavelength	λ	400	406	415	nm	Po=140mW
Beam Divergence	//	6	9	14	$^\circ$	Po=140mW
	\perp	16	20	24	$^\circ$	Po=140mW
Beam Angle	Δ //	-	-	± 3	$^\circ$	Po=140mW
	Δ \perp	-	-	± 4	$^\circ$	Po=140mW

1) Measurement condition: CW

2) Full angle at half maximum.

3) All the above values are measured by OPELUS method.

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Package and Electrical connection

