Lasertack

New Laser Generation

Datasheet

BLD-450-100
Blue Laser Diode

Features

- Single Transverse Mode
- Can Type: ϕ5.6mm

Absolute Maximum Ratings

Item	Symbol	Absolut max. Ratings	Unit
Optical output power (Tc=25°C)	Po	120	mW
Reverse voltage	Vrl	2	V
Storage Temperature	Tstg	-40 ~ +85	°C
Operating Case Temperature	Tc	-10 ~ +70	°C

Optical Characteristics

Item	Condition	Symbol	Min	Typ	Max	Unit
Optical Output Power	If=110mA	Po	-	100	-	mW
Dominant Wavelength	If=110mA	λd	445	450	445	nm
Threshold Current	CW	Ith	15	20	23	mA
Operation current	CW	Iop	-	110	-	mA
Slope Efficiency	CW	η	-	1.3	-	mW/mA
Operating Voltage	If=110mA	Vop	-	5.3	-	V
Beam Divergence (1/e2)	If=110mA	θ//	-	10	-	deg.
		θ⊥	-	24	-	deg.
Emission Point Accuracy	If=110mA	Δθ//	-3.0	-	3.0	deg.
	If=110mA	Δθ⊥	-3.0	-	3.0	deg.

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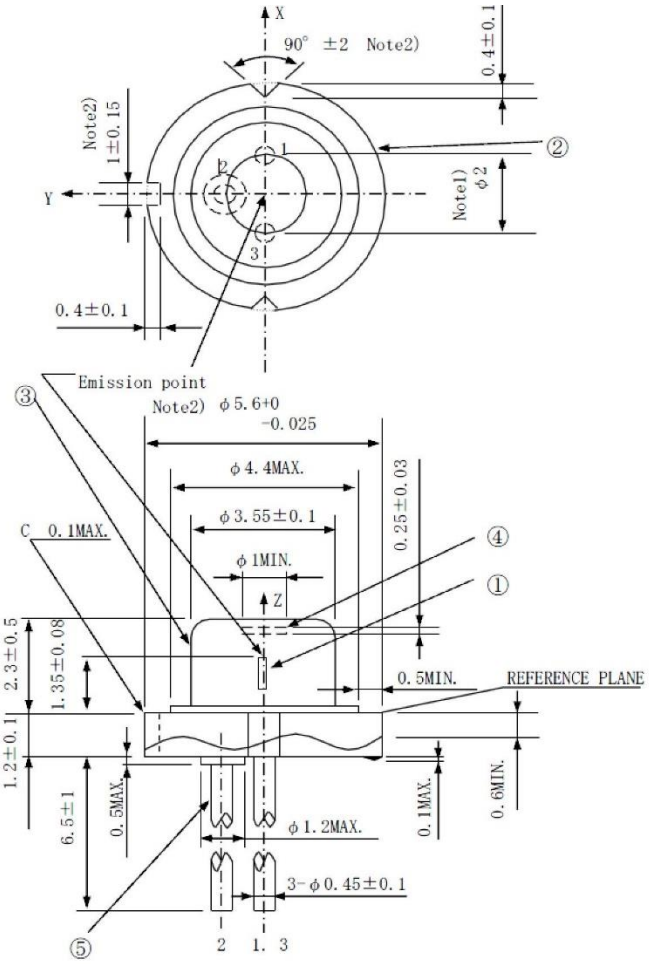
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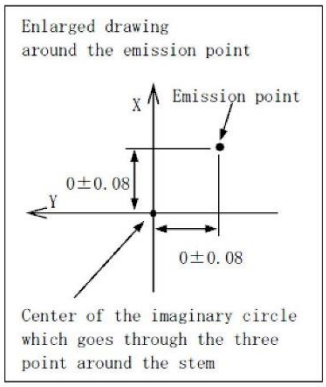
Datasheet

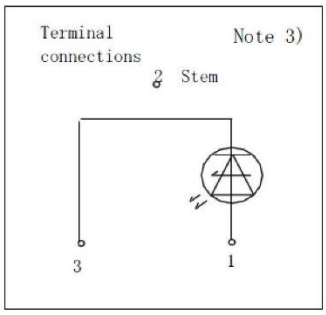
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Mass of the product :
0.31g (reference value)

Marking
Position : TBD
Printed contents : TBD

Note 1) Distance between pins 1 and 2.

Note 2) Dimensions valid for 0 ~ 0.6mm below the reference plane.

Note 3) Not connected. Do not connect this pin to the power source.

No.	Component	Material	Finish
1	Laser chip	InAlGaN	-
2	Stem	Fe/Cu	Gold-plated
3	Cap	45 Alloy	Ni + Pd plated
4	Window	Borosilicate	-
5	Pins	Kovar	Gold Plated

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