



Datasheet

NDB7K75
Blue Laser Diode

Features

- Multi Transverse Mode
- Can Type: $\phi 9\text{mm}$
- ESD Protection Device

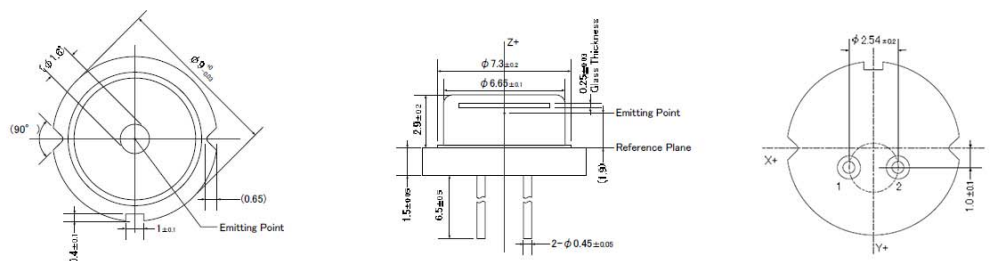
Absolute Maximum Ratings

Item	Symbol	Absolut max. Ratings	Unit
Forward Current ($T_c=25^\circ\text{C}$)	I_f	3.0	A
Allowable Reverse Current ($T_c=25^\circ\text{C}$)	I_r (LD)	85	mA
Storage Temperature	T_{stg}	-40~85	$^\circ\text{C}$
Operating Case Temperature	T_c	0~50	$^\circ\text{C}$

Optical Characteristics

Item	Condition	Symbol	Min	Typ	Max	Unit
Optical Output Power	$I_f=2.3\text{A}$	P_o	3.4	3.5	3.6	W
Dominant Wavelength	$I_f=2.3\text{A}$	λ_d	440	448	455	nm
Threshold Current	CW	I_{th}	200	270	350	mA
Slope Efficiency	CW	η	1.5	1.7	2.0	W/A
Operating Voltage	$I_f=2.3\text{A}$	V_{op}	4.0	4.3	4.7	V
Beam Divergence (1/e ²)	$I_f=2.3\text{A}$	$\theta_{//}$	10	14	20	deg.
		θ_{\perp}	40	46	50	deg.
Emission Point Accuracy	$I_f=2.3\text{A}$	$\Delta\theta_{\perp}$	-3.0	-	3.0	deg.

Dimensions



Units in mm



New Laser Generation

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