

Compact laser diode LDO465-2700

Features

- ※ Short wavelength: $\lambda = 465\text{nm}$ (Type)
- ※ Low threshold current: $I_{th} = 550\text{mA}$ (Type)
- ※ Output optical power: 2.7W
- ※ Package: ($\Phi 9.0\text{mm}$)

Applications

- ※ Industrial Use

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

Items	Symbols	Values	Unit
Optical Output Power	P_o	2.7	W
Laser Diode Reverse Voltage	V	2	V
Operating Temperature (Case temperature)	T_{opr}	$-30 \sim +60$	$^\circ\text{C}$
Storage Temperature	T_{stg}	$-40 \sim +85$	$^\circ\text{C}$

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

Items	Symbols	Min	Type	Max.	Unit	Condition
Optical Output Power	P_o	-	2.7	2.9	W	CW
Threshold Current	I_{th}	300	-	530	mA	CW
Operating Current	I_{op}	-	-	2.2	A	$P_o = 2.7\text{W}$
Slope Efficiency	η	-	-	1.6	-	CW
Operating Voltage	V_{op}	3.7	-	4.9	V	$P_o = 2.7\text{W}$
Lasing Wavelength	λ	458	465	470	nm	$P_o = 2.7\text{W}$
Beam Divergence	//	0.26	0.38	0.53	$^\circ$	$P_o = 2.7\text{W}$
	\perp	-0.8	0.1	0.7	$^\circ$	$P_o = 2.7\text{W}$
Beam Angle	$\Delta //$	-	-	± 2	$^\circ$	$P_o = 2.7\text{W}$
	$\Delta \perp$	-	-	± 3	$^\circ$	$P_o = 2.7\text{W}$

- 1) Measurement condition: CW
- 2) Full angle at half maximum.

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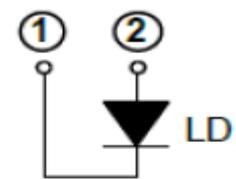
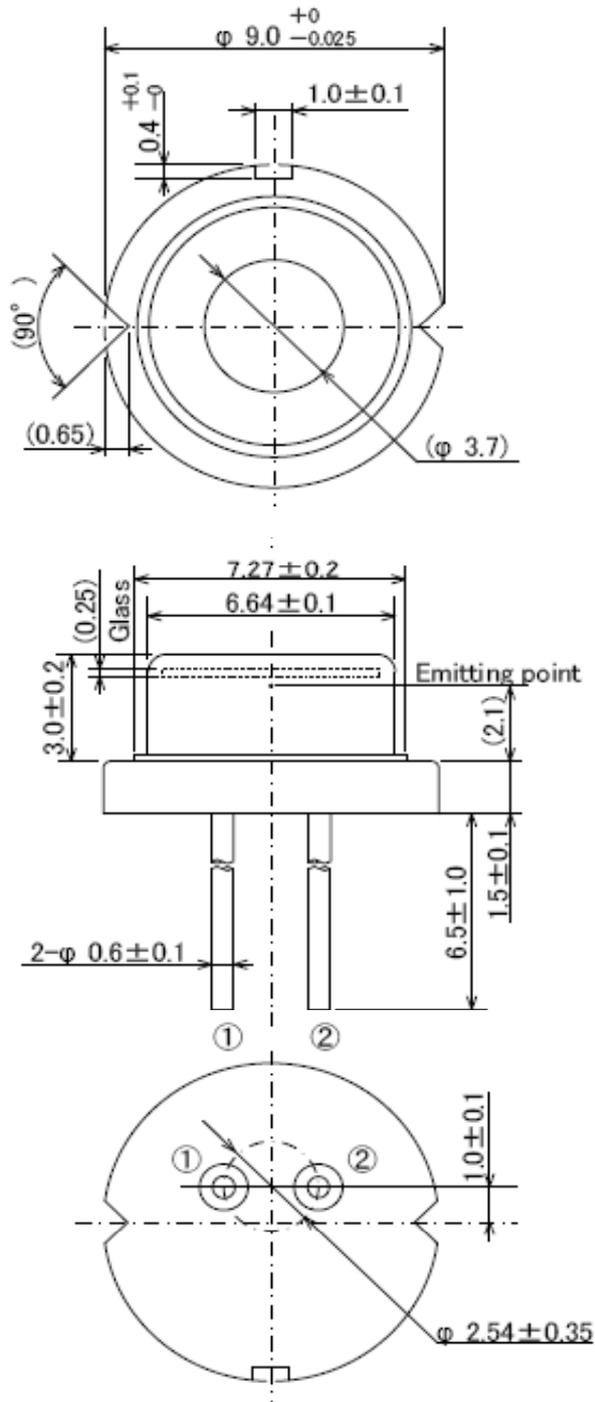
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Compact laser diode LD0465-2700

Package and Electrical connection



Unit: mm