



CHIP-650-P5

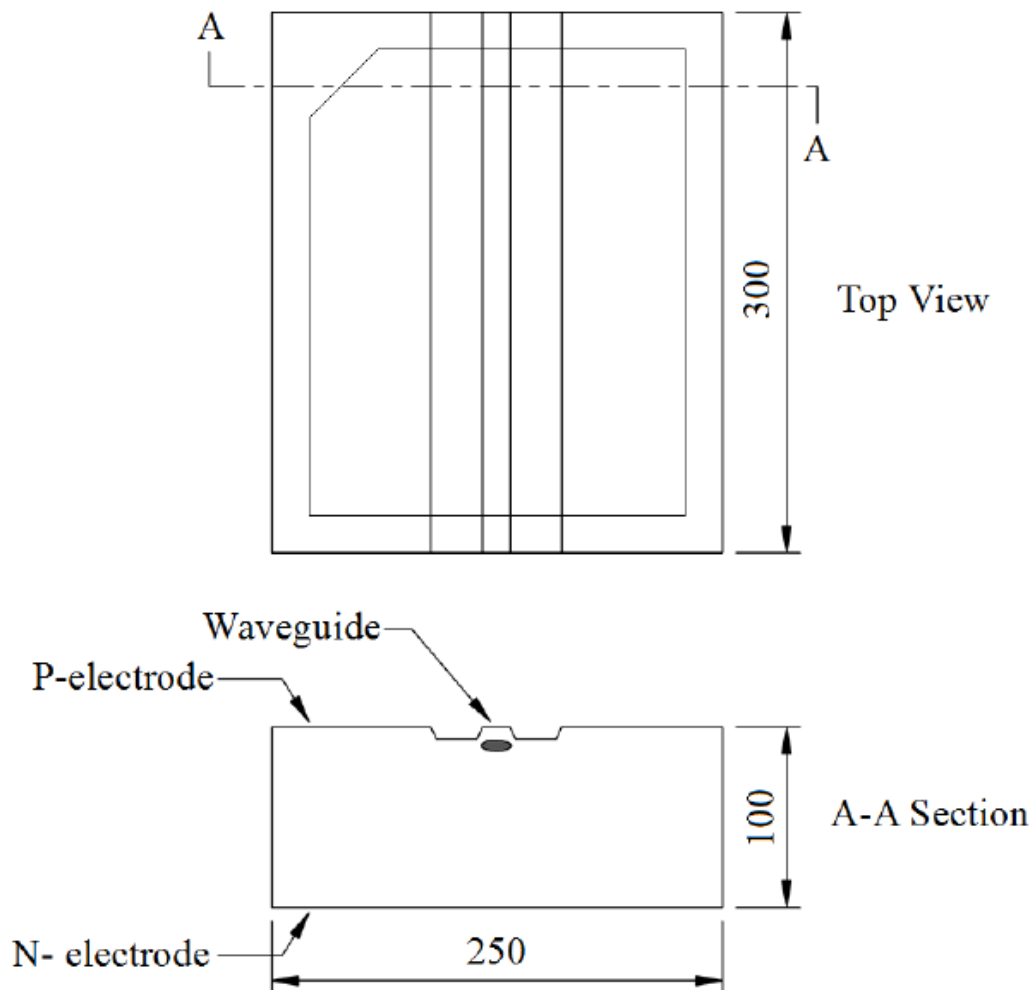
■ Features

1. Low Iop
2. Peak wavelength at 25°C : 650 nm (typical)
3. Standard light output : 5mW (Pulse)

■ Applications

1. Laser Pointer
2. Laser Module
3. Bar code scanner
4. Medical equipment

■ External dimensions(Unit : μm)



P-electrode and N-electrode are both gold pads.



■ Electrical and Optical Characteristics(Tc=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	
Threshold Current	I _{th}	P _o =5mW	-	11	15	mA	
Operating Current	I _{op}	P _o =5mW	-	17	22	mA	
Operating Voltage	V _{op}	P _o =5mW	-	2.2	2.5	Volts	
Slope Efficiency	η	P _o =1.25~3.75mW	0.5	0.8	-	mW/mA	
Beam Divergence (FWHM)	Parallel	$\theta_{//}$	P _o =5mW	5	8	12	deg.
	Perpendicular	θ_{\perp}	P _o =5mW	30	36	42	deg.
Lasing Wavelength	λ	P _o =5mW	640	650	665	nm	

⊙ $\theta_{//}$ and θ_{\perp} are defined as the angle within which the intensity is 50% of the peak value.

⊙ Measuring Conditions : Pulse width=5 μ s , Duty cycle=1%

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