



LD655-30-1

● Specifications:

Wavelength: 655nm
 Power: 30mW CW
 Package: TO18

● Absolute Maximum Ratings($T_c=25^\circ\text{C}$):

Parameter		Symbols	Rated	Units
Light Output	CW	P_o	32	mW
Reverse Voltage	Laser	V_r	2	V
	PD	$V_r(\text{PIN})$	30	V
Operation Temperature		T_{op}	-10~+50	$^\circ\text{C}$
Storage Temperature		T_{stg}	-40~+80	$^\circ\text{C}$

● Electrical and Optical Characteristics($T_c=25^\circ\text{C}$):

Parameter		Symbols	Condition	Min.	Typ.	Max.	Unit
Lasing Wavelength		λ_p	$P_o=30\text{mW}$	640	655	668	nm
Threshold Current		I_{th}	CW	-	45	50	mA
Operating Current		I_{op}	$P_o=30\text{mW}$	-	85	90	mA
Operating voltage		V_{op}	$P_o=30\text{mW}$	-	2.4	2.6	V
Monitoring Output Current		I_m	$P_o=30\text{mW}$ $V_r=0\text{V}$	-	0.3	-	mA
Beam ¹⁾ Divergence	Parallel	$\theta_{//}$	$P_o=30\text{mW}$	8	9	12	deg.
	Perpendicular	θ_{\perp}	$P_o=30\text{mW}$	17	22	27	deg.
Off Axis Angle	Parallel	$\Delta\theta_{//}$	$P_o=30\text{mW}$	-2	-	2	deg.
	Perpendicular	$\Delta\theta_{\perp}$	$P_o=30\text{mW}$	-2	-	2	deg.
Slope Efficiency		η	-	0.3	0.7	-	mW/mA
Emission Point Accuracy		$\Delta x \Delta y \Delta z$	$P_o=30\text{mW}$	-80	-	80	um

1) Full angle at half Maximum

