



# LD660-30-1

## ●Specifications:

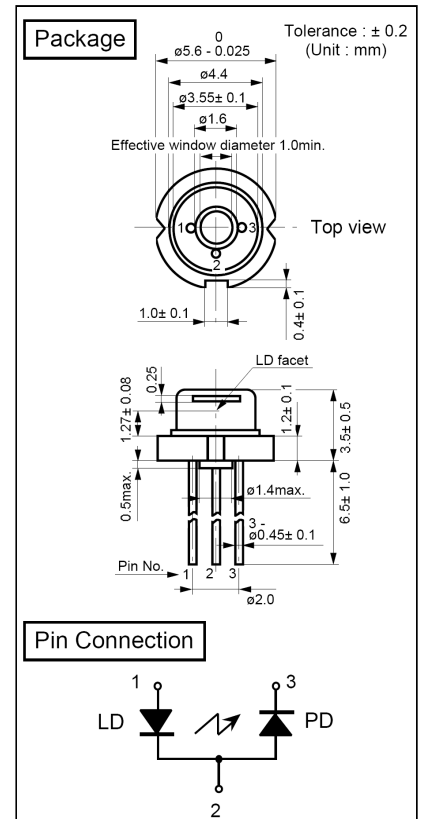
Wavelength: 660nm  
 Power: 30mW CW  
 Package: TO18

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

Parameter		Symbols	Ratings	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		$\lambda_p$	$P_o=30\text{mW}$	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 <sup>1)</sup> Divergence	Parallel	$\theta_{//}$	$P_o=30\text{mW}$	8	9	12	deg.
	Perpendicular	$\theta_{\perp}$	$P_o=30\text{mW}$	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		$\eta$	-	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

