

★ 635nm 0.35W 25°C C-Mount PKG

● Features

1. High power
2. High Visibility
3. P-polarized light
4. Long lifetime

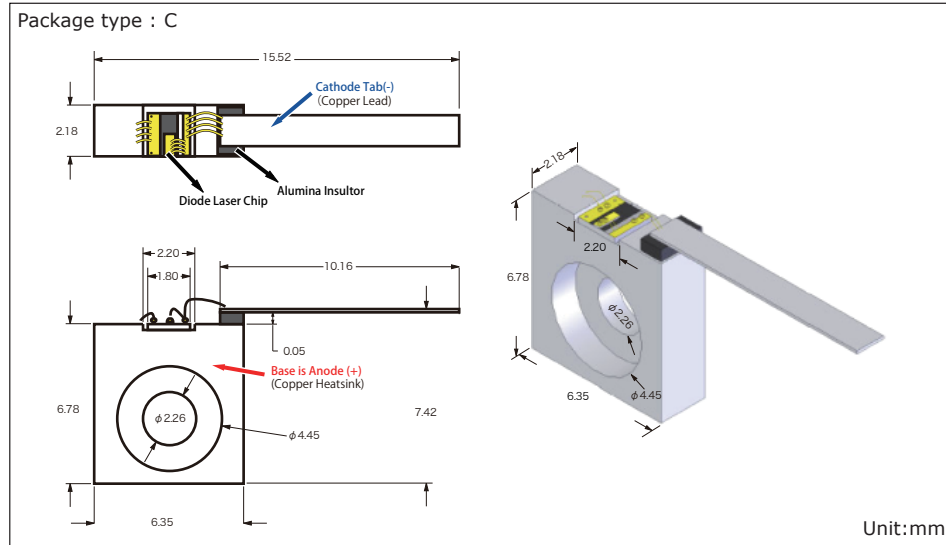


Fig.1: Outside view

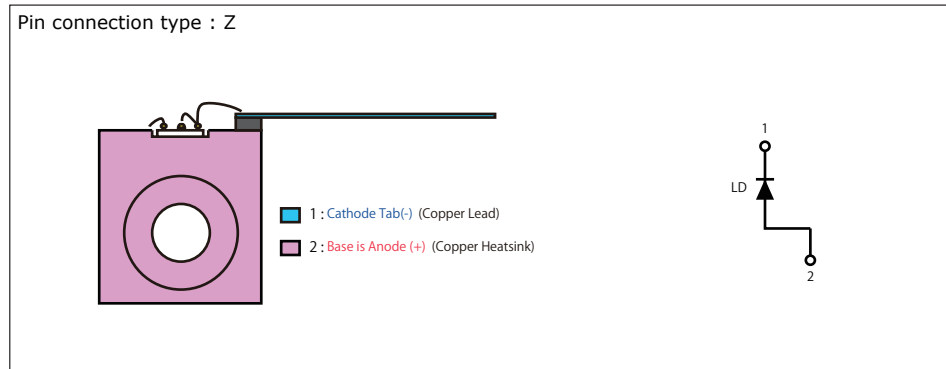


Fig.2: Pin connection

● Precautions

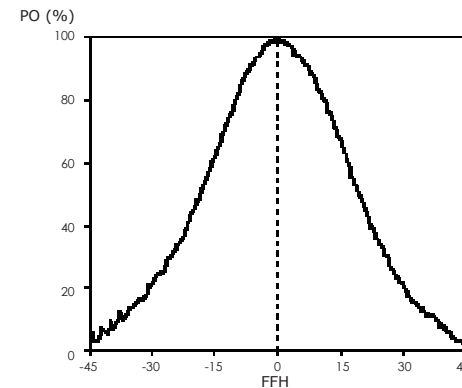
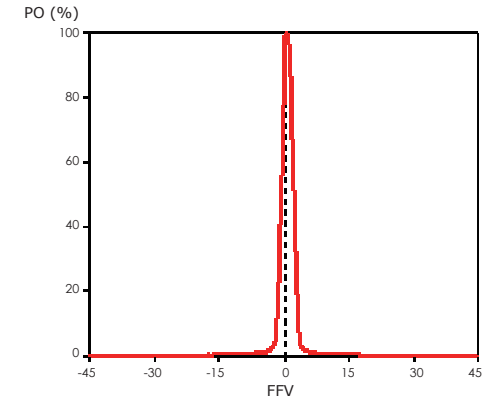
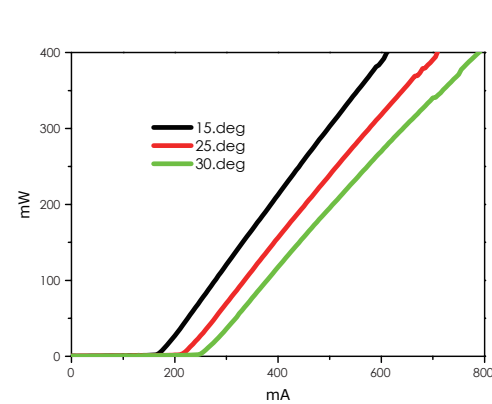
- * Do not operate the device above maximum ratings. Doing so may cause unexpected and permanent damage to the device.
- * Take precautions to avoid electrostatic discharge and/or momentary power spikes. A change in the characteristics of the laser or premature failure may result.
- * Proper heat sinking of the device assures stability and lifetime. Always ensure that maximum operating temperatures are not exceeded.
- * Observing visible or invisible laser beams with the human eye directly, or indirectly, can cause permanent damage. Use a camera to observe the laser.
- * No laser device should be used in any application or situation where life or property is at risk in event of device failure.
- * Specifications are subject to change without notice. Ensure that you have the latest specification by contacting us prior to purchase or use of the product.

● Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_o	CW	400	mW
Reverse voltage (LD)	V_{RL}	-	2	V
Case temperature	T_c	-	-10~+25	°C
Storage temperature	T_s	-	-40~+85	°C

● Electrical and optical characteristics ($T_c=25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Peak wavelength	λ	630	635	640	nm	
Wavelength Temperature Coefficient		-	0.25	0.3	nm/°C	
Emitter size		-	50	-	μm	
Polarization		-	TM	-		
Threshold current	I_{th}	-	200	300	mA	
Operating current	I_{op}	-	640	850	mA	$P_o=350\text{mW}$
Operating voltage	V_{op}	-	2.6	3.0	V	$P_o=350\text{mW}$
Differential efficiency	η	-	0.8	-	mW/mA	$P_o=20\text{-}200\text{mW}$
Parallel divergence angle	$\theta_{//}$	-	3.5	12	deg	
Perpendicular divergence angle	θ_{\perp}	30	36	40	deg	
Total conversion efficiency		-	28	-	%	



* For reference only. Contents above are subject to change without notice.