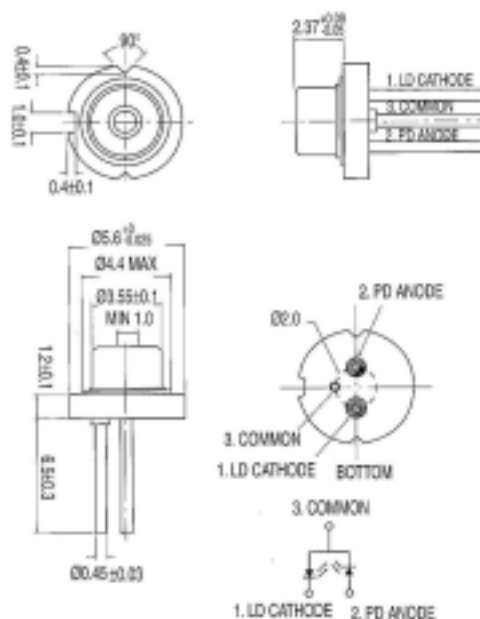


Device	Laser Diode
Package Type	TO-18(ϕ 5.6mm)



Characteristics		Symbols	Ratings	Units
Optical Output		Po	7	mW
Reverse Voltage	Laser	Vr	2	V
	PIN PD	Vr(PIN)	10	V
Operating Temperature		Top	-10 +50	
Storage Temperature		Tstg	-40 +85	

Characteristics		Symbols	Conditions	Min.	Typ.	Max.	Units
Threshold Current		I _{th}	-	-	25	35	mA
Operating Current		I _{op}	Po=5mW	-	35	45	mA
Operating Voltage		V _{op}	Po=5mW	-	2.3	2.7	Volts
Slope Efficiency		η	2mW	0.35	0.55	1.0	mW/mA
			I(5mW)-I(3mW)				
Monitor Current		I _m	Po=5mW	-	0.05	0.8	mA
Beam Divergence (FWHM)	Parallel	θ //	Po=5mW	6	8	15	deg.
	Prependicular	θ	Po=5mW	22	35	40	deg.
Parallel Deviation Angle		Δ θ //	Po=5mW	-3	-	3	deg.
Perpendicular Deviation Angle		Δ θ	Po=5mW	-3	-	3	deg.
Emission Point Accuracy		Δ X	Po=5mW	-80	-	80	μm
		Δ Y	Po=5mW	-80	-	80	μm
		Δ Z	Po=5mW	-80	-	80	μm
Lasing Wavelength		λ	Po=5mW	630	637	640	nm

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