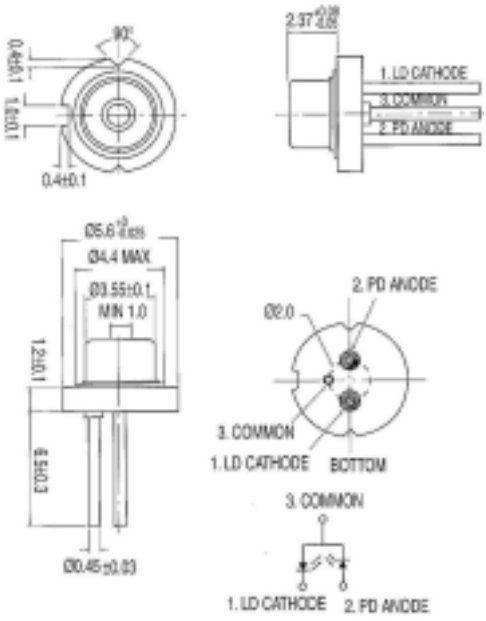
6750-7241-AU 670nm 5 mW Laser Diodes AUTO PACKAGE

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



■Absolute Maximum Ratings(Tc=25℃)

Characteristics		Symbols	Ratings	Units
Optical Output		Po	**5**	mW
Reverse Voltage	Laser	Vr	**2**	V
	PIN PD	Vr(PIN)	**10**	V
Operating Temperature		Top	-10 +50	℃
Storage Temperature		Tstg	-40 +85	℃

■Electrical and optical Characteristics(Tc=25℃)

Characteristics		Symbols	Conditions	Min.	Typ.	Max.	Units
Threshold Current		Ith	-	**-**	**20**	**30**	mA
Operating Current		Iop	Po=5mW	**-**	**35**	**50**	mA
Operating Voltage		Vop	Po=5mW	**-**	**2.3**	**2.6**	Volts
Slope Efficiency		η	2mW / I(5mW)-I(3mW)	**0.2**	**0.6**	**1.0**	mW/mA
Monitor Current		Im	Po=5mW	**-**	**0.15**	**1.0**	mA
Beam Divergence (FWHM)	Parallel	θ //	Po=5mW	**-**	**8.5**	**-**	deg.
	Prependicular	$\theta \perp$	Po=5mW	**-**	**22**	**-**	deg.
Parallel Deviation Angle		$\Delta \theta$ //	Po=5mW	**-3**	**-**	**3**	deg.
Perpendicular Deviation Angle		$\Delta \theta \perp$	Po=5mW	**-3**	**-**	**3**	deg.
Emission Point Accuracy		ΔX	Po=5mW	**-80**	**-**	**80**	μm
		ΔY	Po=5mW	**-80**	**-**	**80**	μm
		ΔZ	Po=5mW	**-80**	**-**	**80**	μm
Lasing Wavelength		λ	Po=5mW	**660**	**670**	**680**	nm

Im is sorting by custom's need
◎ θ // and $\theta \perp$ are defined as the angle within which the intensity is 50% of the peak value.