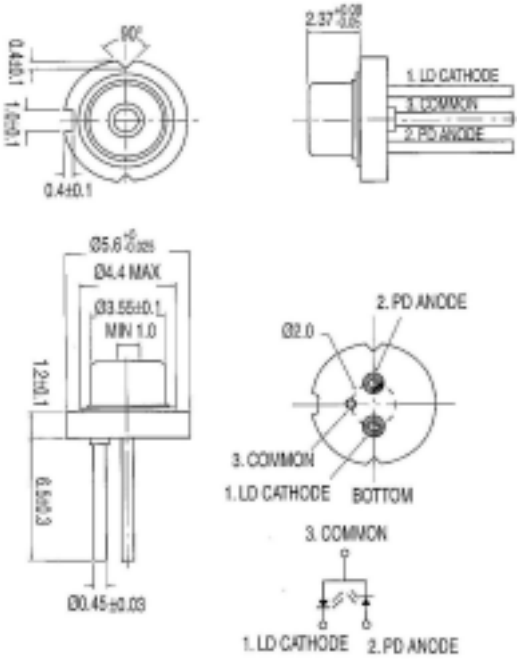
6311-7212-AU 635nm 10mW Laser Diodes AUTO PACKAGE

Specifications

Device Laser Diode

Package Type TO-18(φ5.6mm)



■Absolute Maximum Ratings(Tc=25℃)

Characteristics		Symbols	Ratings	Units
Optical Output		Po	**12**	mW
Reverse Voltage	Laser	Vr	**2**	V
	PIN PD	Vr(PIN)	**30**	V
Operating Temperature		Top	-10 +40	℃
Storage Temperature		Tstg	-15 +85	℃

■Electrical and optical Characteristics(Tc=25℃)

Characteristics		Symbols	Conditions	Min.	Typ.	Max.	Units
Threshold Current		Ith	-	-	**25**	**35**	mA
Operating Current		Iop	Po=10mW	-	**45**	**55**	mA
Operating Voltage		Vop	Po=10mW	-	**2.3**	**2.7**	Volts
Slope Efficiency		η	5mW / I(10mW)-I(5mW)	**0.3**	**0.4**	**1.0**	mW/mA
Monitor Current		Im	Po=10mW	-	**0.4**	**1.0**	mA
Beam Divergence (FWHM)	Parallel	θ //	Po=10mW	-	**8**	-	deg.
	Prependicular	θ ⊥	Po=10mW	-	**30**	-	deg.
Parallel Deviation Angle		Δ θ //	Po=10mW	**-3**	-	**3**	deg.
Perpendicular Deviation Angle		Δ θ ⊥	Po=10mW	**-3**	-	**3**	deg.
Emission Point Accuracy		ΔX	Po=10mW	**-80**	-	**80**	μm
		ΔY	Po=10mW	**-80**	-	**80**	μm
		ΔZ	Po=10mW	**-80**	-	**80**	μm
Lasing Wavelength		λ	Po=10mW	**630**	**635**	**640**	nm

Im is sorting by custom's need

◎ θ // and θ ⊥ are defined as the angle within which the intensity is 50% of the peak value.