



DB LECTRO
COMPOSANTS ÉLECTRONIQUES
ELECTRONIC COMPONENTS

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

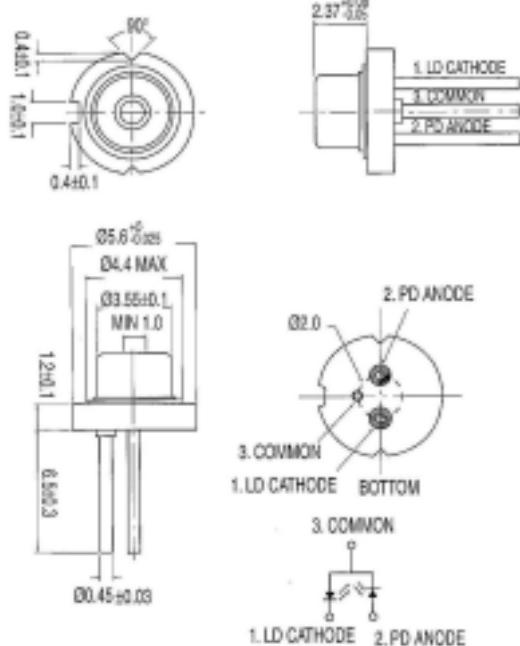
Specifications

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



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			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	//	Po=10mW	-	8	-	deg.
	Prependicular		Po=10mW	-	30	-	deg.
Parallel Deviation Angle	//		Po=10mW	-3	-	3	deg.
Perpendicular Deviation Angle			Po=10mW	-3	-	3	deg.
Emission Point Accuracy	X		Po=10mW	-80	-	80	µm
	Y		Po=10mW	-80	-	80	µm
	Z		Po=10mW	-80	-	80	µm
Lasing Wavelength			Po=10mW	630	635	640	nm

Im is sorting by custom's need

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