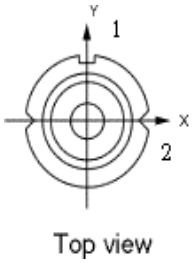
6551-7212-AU 660nm 50 mW Laser Diodes AUTO PACKAGE

Specifications

Device Laser Diode

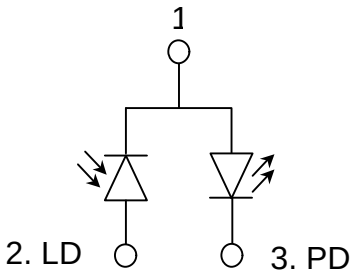
Package Type TO-18(φ5.6mm)



Top view

■Absolute Maximum Ratings(Tc=25℃)

Characteristics		Symbols	Ratings	Units
Optical Output		Po	**55**	mW
Reverse Voltage	Laser	Vr	**2**	V
	PIN PD	Vr(PIN)	**30**	V
Operating Temperature		Top	-10 +40	℃
Storage Temperature		Tstg	-40 +85	℃



■Electrical and optical Characteristics(Tc=25℃)

Characteristics		Symbols	Conditions	Min.	Typ.	Max.	Units
Threshold Current		Ith	-	-	**40**	**70**	mA
Operating Current		Iop	Po=50mW	-	**120**	**150**	mA
Operating Voltage		Vop	Po=50mW	-	**2.5**	**3**	Volts
Slope Efficiency		η	20mW / I(50mW)-I(30mW)	**0.3**	**0.5**	**1.0**	mW/mA
Monitor Current		Im	Po=50mW	-	**0.5**	**3.0**	mA
Beam Divergence (FWHM)	Parallel	θ //	Po=50mW	**6**	**8.5**	**12**	deg.
	Prependicular	θ ⊥	Po=50mW	**17**	**22**	**26**	deg.
Parallel Deviation Angle		Δ θ //	Po=50mW	**-3**	-	**3**	deg.
Perpendicular Deviation Angle		Δ θ ⊥	Po=50mW	**-3**	-	**3**	deg.
Emission Point Accuracy		ΔX	Po=50mW	**-80**	-	**80**	μm
		ΔY	Po=50mW	**-80**	-	**80**	μm
		ΔZ	Po=50mW	**-80**	-	**80**	μm
Lasing Wavelength		λ	Po=50mW	**655**	**660**	**665**	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.