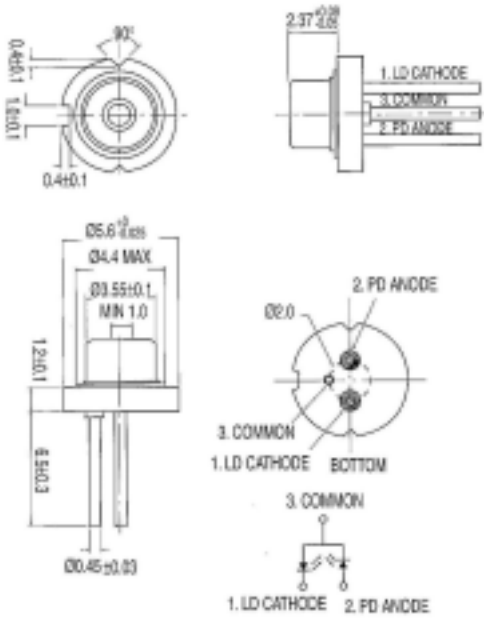
DB LECTRO INC
COMPOSANTS ÉLECTRONIQUES
ELECTRONIC COMPONENTS

6550-7241-AU-50 650nm 5 mW Laser Diodes AUTO PACKAGE(REGROWTH)

Specifications
Device Laser Diode
Package Type TO-18(φ5.6mm)



■Absolute Maximum Ratings(Tc=25℃)

Characteristics		Symbols	Ratings	Units
Optical Output		Po	**7**	mW
Reverse Voltage	Laser	Vr	**2**	V
	PIN PD	Vr(PIN)	**30**	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	**-**	**30**	**40**	mA
Operating Voltage		Vop	Po=5mW	**-**	**2.2**	**2.6**	Volts
Slope Efficiency		η	2mW / I(5mW)-I(3mW)	**0.3**	**0.7**	**1**	mW/mA
Monitor Current		Im	Po=5mW	**-**	**0.2**	**0.8**	mA
Beam Divergence (FWHM)	Parallel	θ //	Po=5mW	**5**	**8**	**12**	deg.
	Prependicular	θ ⊥	Po=5mW	**25**	**33**	**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		ΔX	Po=5mW	**-80**	**-**	**80**	um
		ΔY	Po=5mW	**-80**	**-**	**80**	um
		ΔZ	Po=5mW	**-80**	**-**	**80**	um
Lasing Wavelength		λ	Po=5mW	**645**	**650**	**660**	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.