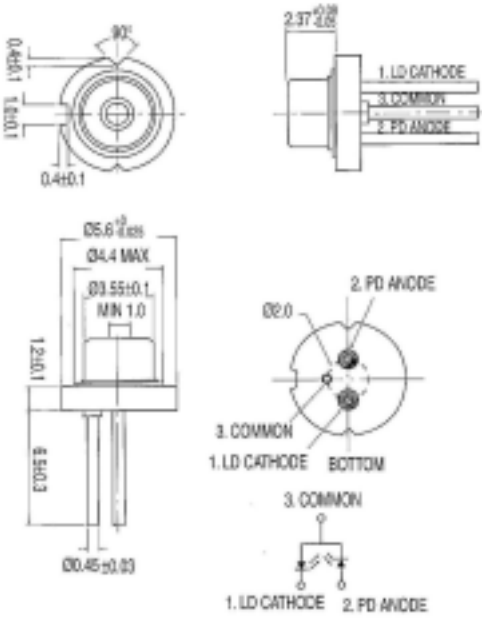
DB LECTRO INC
COMPOSANTS ÉLECTRONIQUES
ELECTRONIC COMPONENTS

6350-1271-AU 635nm 5 mW 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	**7**	mW
Reverse Voltage	Laser	Vr	**2**	V
	PIN PD	Vr(PIN)	**10**	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	-	-	**25**	**35**	mA
Operating Current		Iop	Po=5mW	-	**35**	**40**	mA
Operating Voltage		Vop	Po=5mW	-	**2.3**	**2.7**	Volts
Slope Efficiency		η	2mW / I(5mW)-I(3mW)	**0.35**	**0.55**	**1.0**	mW/mA
Monitor Current		Im	Po=5mW	-	**0.05**	**0.8**	mA
Beam Divergence (FWHM)	Parallel	θ //	Po=5mW	**6**	**8**	**15**	deg.
	Prependicular	θ ⊥	Po=5mW	**22**	**35**	**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**	μm
		ΔY	Po=5mW	**-80**	-	**80**	μm
		ΔZ	Po=5mW	**-80**	-	**80**	μm
Lasing Wavelength		λ	Po=5mW	**630**	**637**	**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.

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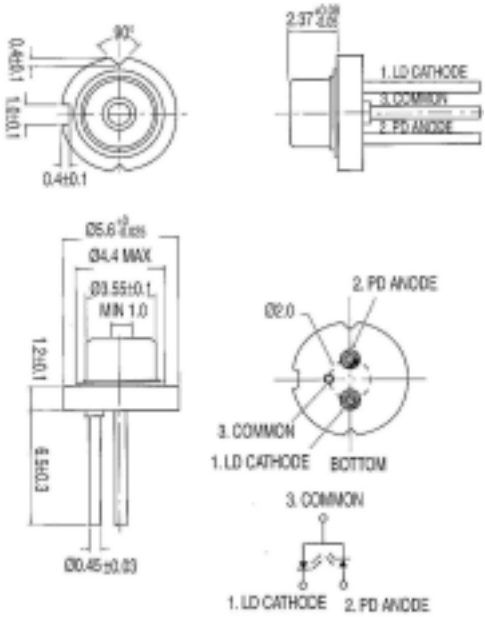
6350-1271-AU-50 635nm 5 mW Laser Diodes AUTO PACKAGE

Specifications

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



■Absolute Maximum Ratings(Tc=25℃)

Characteristics		Symbols	Ratings	Units
Optical Output		Po	**7**	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	-	**-**	**25**	**35**	mA
Operating Current		Iop	Po=5mW	**-**	**35**	**45**	mA
Operating Voltage		Vop	Po=5mW	**-**	**2.3**	**2.7**	Volts
Slope Efficiency		η	2mW / I(5mW)-I(3mW)	**0.35**	**0.55**	**1.0**	mW/mA
Monitor Current		Im	Po=5mW	**-**	**0.05**	**0.8**	mA
Beam Divergence (FWHM)	Parallel	θ //	Po=5mW	**6**	**8**	**15**	deg.
	Prependicular	θ ⊥	Po=5mW	**22**	**35**	**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**	μm
		ΔY	Po=5mW	**-80**	**-**	**80**	μm
		ΔZ	Po=5mW	**-80**	**-**	**80**	μm
Lasing Wavelength		λ	Po=5mW	**630**	**637**	**640**	nm

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