VIOLET LASER DIODE

SDL-375-70-511G

Features

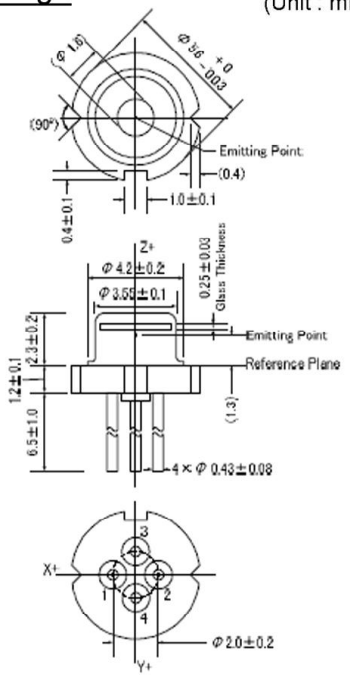
Wavelength: 375nm (Typ.)
Optical power: Po = 70mW (Typ.)
Package: TO-18, Φ5.6mm (RoHS compliant)

Applications

Industrial Applications

Package

Tolerance : ± 0.2
(Unit : mm)



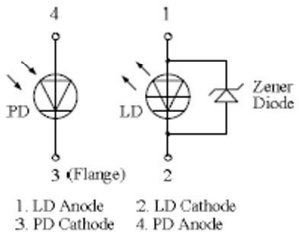
Absolute Maximum Ratings

(Tc=25°C)

Parameter	Symbol	Rating	Unit
Optical Output	Po	**85**	mW
Reverse Voltage (PD)	Vr	**5**	V
Operating Temperature	Top	+10~+40	℃
Storage Temperature	Tstg	-40~+85	℃

* Case Temperature

Pin Connection



Electrical and Optical Characteristics

(Tc=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		Ith	-	**30**	**50**	**75**	mA
Operating Current		Iop	Po=70W	**80**	**110**	**140**	mA
Operating Voltage		Vop	-	**4.6**	**5.4**	**6.0**	Volt
Slope Efficiency		η	Po=70W	**0.9**	**1.2**	**1.6**	mW/mA
Monitor Current		Im	Po=70W	**0.05**	**0.2**	**2.0**	mA
Beam Divergenc	Parallel	θ //	Po=70W	**6**	**9**	**11**	deg.
(FWHM)	Perpendicular	θ ⊥	Po=70W	**19**	**22.5**	**26**	deg.
Lasing Wavelength		λ		**370**	**375**	**380**	nm
Beam Angle (Parallel)		Δ //		**-**	**±3**	**-**	nm
Beam Angle (Perpendicular)		Δ ⊥		**-**	**±3**	**-**	mA

* Angle at 50% peak intensity (full-width at malf-maximum)

Note: The above specification is subject to change without notice

Semicom Visual Ltd.
sales@semicom.co.uk www.semicom.co.uk
Kao Hockham Building, Edinburgh Way, Harlow, Essex, CM20 2NQ, UK. TEL: +44 (0)1279 422224 FAX: +44 (0)1279 433339