INFRARED LASER DIODE

DL-LS2003 **Tentative**

Ver.1.0 Sep. 2001

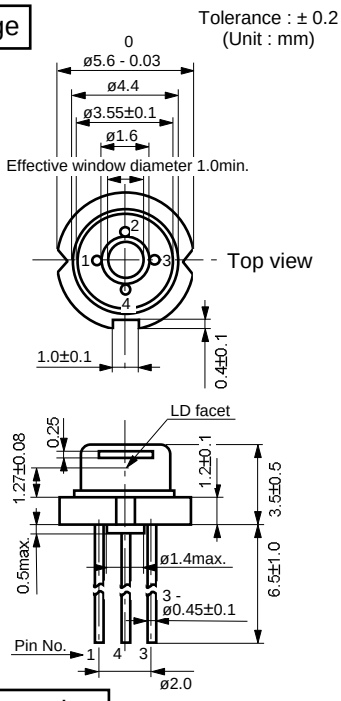
Features

- Wavelength : 785 nm (Typ.)
- Low threshold current : Ith = 30 mA (Typ.)
- Beam Number : 2
- Beam Distance : 100 µm
- Small package : ø5.6mm

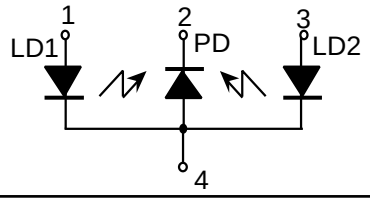
Applications

- Laser Beam Printer

Package



Pin Connection



Absolute Maximum Ratings

(Tc=25°C)

Parameter		Symbol	Ratings	Unit
Light Output		Po	15 x 2	mW
Reverse Voltage	LD	VR	2	V
	PD		30	
Operating Temperature		Topr	-10 to +60	°C
Storage Temperature		Tstg	-40 to +85	°C

Electrical and Optical Characteristics [1) 2)]

(Tc=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		Ith	Po=15mW	-	30	40	mA
Operating Current		Iop	Po=15mW	-	55	65	mA
Operating voltage		Vop	Po=15mW	-	1.8	2.5	V
Lasing Wavelength		Lp	Po=15mW	775	785	795	nm
Beam Divergence [3)]	Perpendicular	Qv	Po=15mW	22	25	30	°
	Parallel	Qh	Po=15mW	6	8	10	°
Off Axis Angle	Perpendicular	dQv	-	-	-	±3	°
	Parallel	dQh	-	-	-	±3	°
Differential Efficiency		dPo/dIop	-	0.4	0.6	0.8	mW/mA
Monitor Output Current		Im	Po=15mW	0.2	0.4	-	mA

1) For each one LD 2) All the above values are evaluated with Tottori sanyo's measuring apparatus.
3) Full angle at half maximum. Note : The above product specification are subject to change without notice.

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