RED LASER DIODE

DL-LS1164

Tentative

SANYO

Ver.2 May. 2005

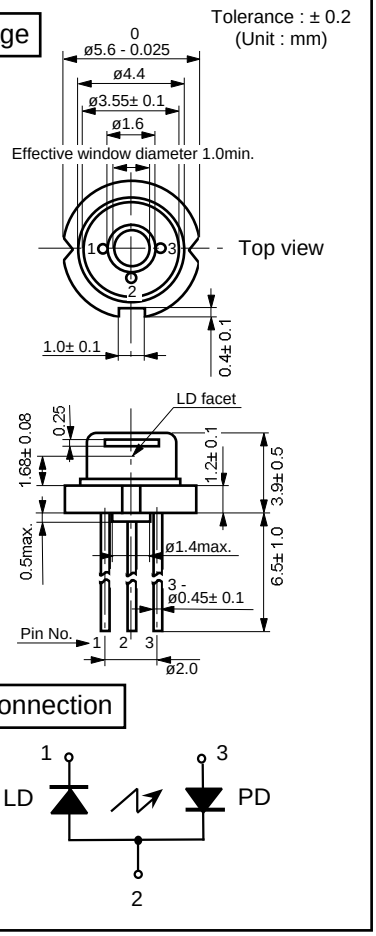
Features

- Short wavelength : 638 nm (Typ.)
- High output power : 20 mW (CW)
- Low threshold current : Ith = 65 mA (Typ.)
- Low operating voltage : Vop = 2.4V (Typ.)

Applications

Bar-code scanner
Line marker , Leveler
Laser display

Package



Pin Connection

Absolute Maximum Ratings

(Tc=25°C)

Parameter		Symbol	Ratings	Unit
Light Output	CW	Po (CW)	25	mW
Reverse Voltage	Laser	VR	2	V
	PD		30	
Operating Temperature		Topr	-10 to +50	°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	CW	-	65	-	mA
Operating Current		Iop	Po=20mW	-	80	-	mA
Operating Voltage		Vop	Po=20mW	-	2.3	-	V
Lasing Wavelength		Lp	Po=20mW	-	638	645	nm
Beam Divergence 3)	Perpendicular	Qv	Po=20mW	-	16	-	°
	Parallel	Qh	Po=20mW	-	8	-	°
Off Axis Angle	Perpendicular	dQv	-	-3	-	3	°
	Parallel	dQh	-	-3	-	3	°
Differential Efficiency		SE	-	-	0.95	-	mW/mA
Monitoring Output Current		Im	Po=20mW	-	0.3	-	mA

1) Initial values 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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