RED LASER DIODE

DL-LS1030

Tentative

SANYO

Ver.1 Apr. 2002

Features

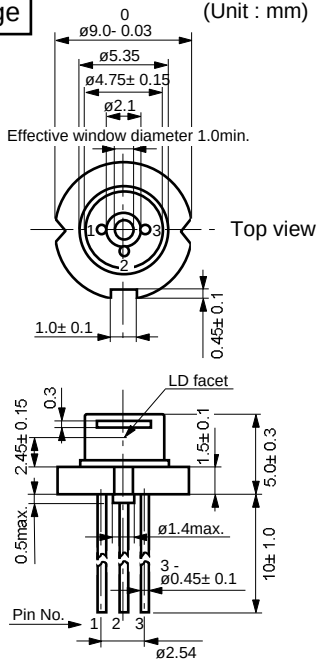
- Short wavelength : 635 nm (Typ.)
- High output power :5 mW at 60°C
- Low threshold cuttent : Ith = 25 mA (Typ.)

Applications

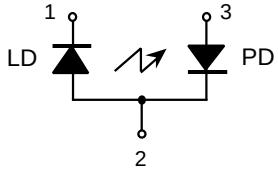
- Bar-code scanner
- Industrial equipment

Package

Tolerance : ± 0.2
(Unit : mm)



Pin Connection



Absolute Maximum Ratings

(Tc=25°C)

Parameter		Symbol	Ratings	Unit
Light Output	CW	Po	7	mW
Reverse Voltage	Laser	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	CW	-	25	40	mA
Operating Current		Iop	Po=5mW	-	30	50	mA
Operating Voltage		Vop	Po=5mW	-	2.2	2.6	V
Lasing Wavelength		Lp	Po=5mW	-	635	640	nm
Beam Divergence 3)	Perpendicular	Qv	Po=5mW	25	30	35	°
	Parallel	Qh	Po=5mW	7	9	11	°
Off Axis Angle	Perpendicular	dQv	-	-	-	± 3	°
	Parallel	dQh	-	-	-	± 3	°
Differential Efficiency		dPo/dIop	-	-	0.6	-	mW/mA
Monitoring Output Current		Im	Po=5mW	0.08	0.12	0.4	mA
Astigmatism		As	Po=5mW	-	8	-	µm

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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