RED LASER DIODE

DL-LS1092 Tentative

SANYO

Ver.1 Nov. 2002

Features

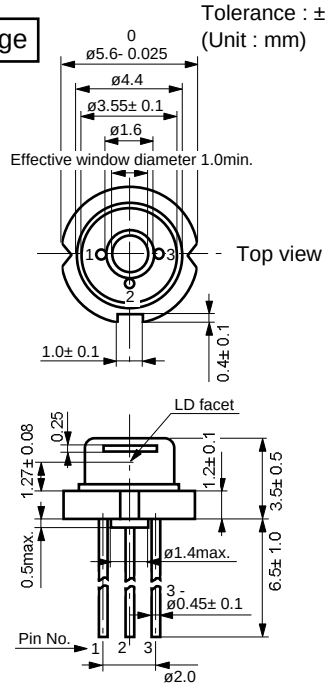
- Short wavelength : 635 nm (Typ.)
- Low threshold current : Ith = 40 mA (Typ.)
- High operating temperature : 7mW at 40°C
- Small package : ø5.6 mm

Applications

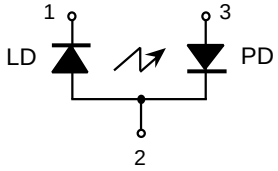
Bar-code scanner

Package

Tolerance : ± 0.2
(Unit : mm)



Pin Connection



Absolute Maximum Ratings

(Tc=25°C)

Parameter		Symbol	Ratings	Unit
Light Output	CW	Po	8	mW
Reverse Voltage	Laser	VR	2	V
	PD		30	
Operating Temperature		Topr	-10 to +40	°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	-	40	60	mA
Operating Current		Iop	Po=7mW	-	60	80	mA
Operating Voltage		Vop	Po=7mW	-	2.2	2.5	V
Lasing Wavelength		Lp	Po=7mW	-	635	645	nm
Beam Divergence [3)]	Perpendicular	Qv	Po=7mW	25	30	35	°
	Parallel	Qh	Po=7mW	6	8	10	°
Off Axis Angle	Perpendicular	dQv	-	-	-	± 3	°
	Parallel	dQh	-	-	-	± 3	°
Differential Efficiency		dPo/dIop	-	-	0.4	-	mG/mA
Monitoring Output Current		Im	Po=7mW	0.1	0.25	0.5	mA
Astigmatism		As	Po=7mW	-	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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