

Features

- Wavelength : 660 nm (Typ.)
- High output power : 70mW at 70°C (pulse)
- Low threshold current : I_{th} = 45 mA (Typ.)
- Small package : ϕ 5.6mm
- TE mode
- Low astigmatism : As=1~2 μ m

Applications

- DVD-R/RW
- DVD-RAM

Absolute Maximum Ratings

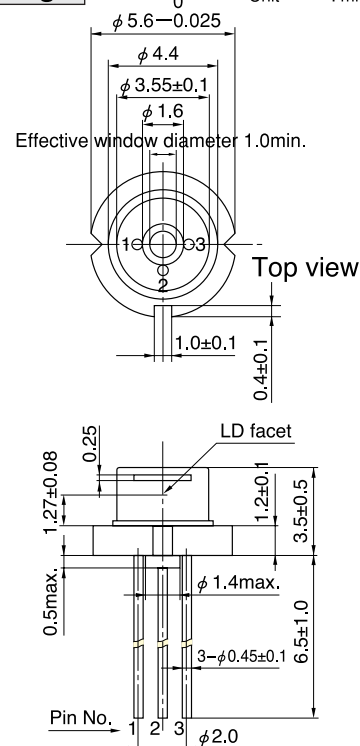
(T_c = 25°C)

Parameter		Symbol	Ratings	Unit
Light Output	CW	P _o (CW)	50	mW
	Pulse ¹⁾	P _o (pulse)	70	
Reverse Voltage	LD	V _R	2	V
	PD		30	
Operating Temperature		T _{opr}	-10 to +70	°C
Storage Temperature		T _{stg}	-40 to +85	°C

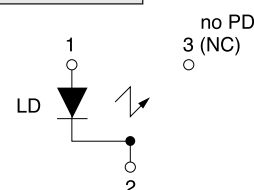
1) Pulse Width 0.5 μ s, Duty 50%

Package

Tolerance : ± 0.2
Unit : mm



Pin Connection



Electrical and Optical Characteristics ^{2) 3)}

(T_c = 25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		I _{th}	CW	—	45	70	mA
Operating Current		I _{op}	P _o =50mW	—	110	130	mA
Operating Voltage		V _{op}	P _o =50mW	—	2.8	3.5	V
Lasing Wavelength		λ p	P _o =50mW	—	660	665	nm
Beam Divergence ⁴⁾	Perpendicular	$\theta_{\perp}$	P _o =50mW	14	17	20	°
	Parallel	$\theta_{\parallel}$	P _o =50mW	7	8.5	11	°
Off Axis Angle	Perpendicular	$\Delta \theta_{\perp}$	—	—	—	± 3	°
	Parallel	$\Delta \theta_{\parallel}$	—	—	—	± 3	°
Differential Efficiency		dP _o /dI _{op}	—	—	0.75	—	mW/mA
Astigmatism		As	P _o =50mW	—	1	—	μ m

2) Initial values 3) All the above values are evaluated with Tottori Sanyo's measuring apparatus 4) Full angle at half maximum

Note : The above product specifications are subject to change without notice.