

Features

- Wavelength : 790 nm (Typ.)
- Frame type : compact, light weight, thin package
- Output Power : 5mW
- Low threshold current : $I_{th} = 20$ mA (Typ.)
- PIN photodiode built-in for light output monitor

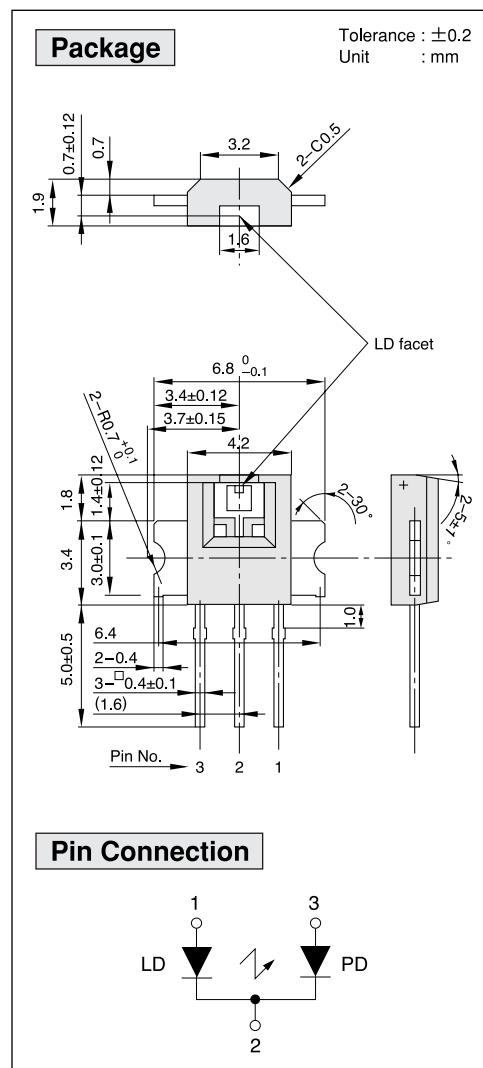
Applications

- CD,CD-ROM,VD

Absolute Maximum Ratings

($T_c = 25^\circ\text{C}$)

Parameter		Symbol	Ratings	Unit
Light Output	CW	P_o	7	mW
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



Electrical and Optical Characteristics

($T_c = 25^\circ\text{C}$)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current	I_{th}	CW	—	20	35	mA
Operating Current	I_{op}	$P_o=5\text{mW}$	—	30	45	mA
Operating Voltage	V_{op}	$P_o=5\text{mW}$	—	1.8	2.3	V
Lasing Wavelength	λ_p	$P_o=5\text{mW}$	—	790	805	nm
Beam Divergence ³⁾	Perpendicular	θ_\perp	$P_o=5\text{mW}$	25	35	45
	Parallel	$\theta_{//}$	$P_o=5\text{mW}$	8	10.5	14
Off Axis Angle	Perpendicular	$\Delta\theta_\perp$	—	—	±3	°
	Parallel	$\Delta\theta_{//}$	—	—	±2	°
Differential Efficiency	dP_o/dI_{op}	—	0.3	—	—	mW/mA
Monitoring Output Current	I_m	$P_o=5\text{mW}$	0.07	0.3	0.7	mA
Astigmatism	A_s	$P_o=5\text{mW}$	—	18	—	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 specifications are subject to change without notice.