

Application

- Leveling
- Ranging
- Sensor
- Bar-code reader
- Laser pointer

Features

- 1) LD anode common
- 2) PD cathode common
- 3) 5.6 CAN 3pin package

●Absolute maximum ratings (T_c= 25°C)

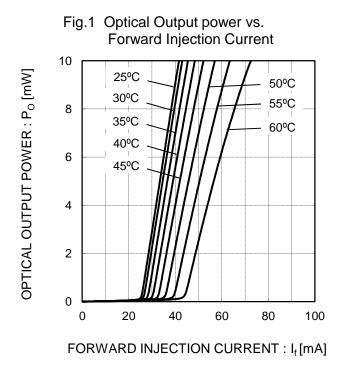
Parameter		Ratings	Unit				
Optical output power		6	mW				
Laser diode	V_{R}	2	V				
Photo diode	V _R (PD)	20	V				
Operating temperature		-10 to +40	°C				
Storage temperature		-40 to +85	°C				
	wer Laser diode Photo diode rature	wer P _O Laser diode V _R Photo diode V _R (PD) rature Top	wer P_0 6Laser diode V_R 2Photo diode $V_R(PD)$ 20ratureTop-10 to +40				

•Electrical and optical characteristics ($T_c=25^{\circ}C$)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Threshold curret	l _{th}	—	24	35	mA	-	
Operating current	I _{op}	1	33	45	mA	P ₀ =5mW	
Operating voltage	V_{op}	1	2.2	2.7	V	P ₀ =5mW	
Output efficiency	η	0.2	0.55	0.8	mW/mA	2mW/ (I (5mW)- I (3mW))	
Monitor current	Im	0.05	0.18	0.5	mA	P _O =5mW,V _R (PD)=15V	
Parallel beam divergence	θ //	6	8	12	deg.	P _o =5mW	
Perpendicular beam divergence	θ_{\perp}	28	32	40	deg.		
Parallel beam tolerance	$\Delta heta$ //	-3	0	3	deg.		
Perpendicular beam tolerance	$\Delta\theta_{\perp}$	-4	0	4	deg.		
Emission point accuracy	ΔXYZ	-100	0	100	μm	-	
Lasing wavelength	λ	630	635	645	nm	P ₀ =5mW	



•Electrical characteristics



•Optical characteristics

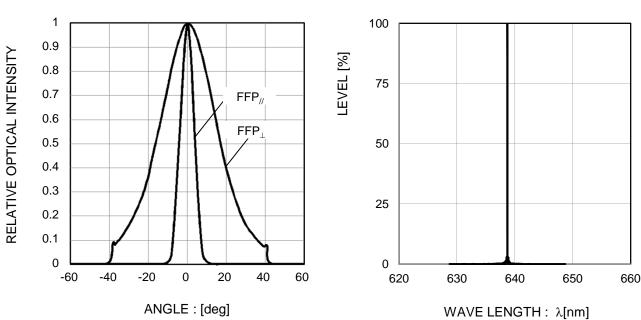
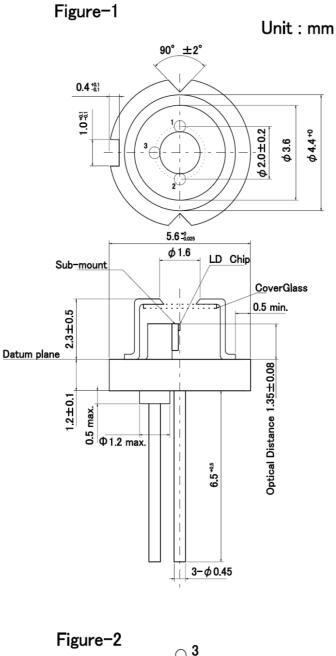


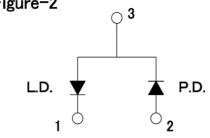
Fig.2 Far Field Pattern

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Fig.3 Lasing Spectrum

•Dimensions (Unit : mm)





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