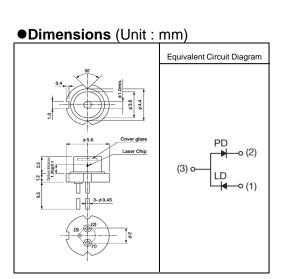
### Application

Sensors Barcode scanner

etc

#### Features

- 1) Optical output power : CW7mW
- 2) Single Mode
- 3) Highly precise  $\phi$ 5.6metal stem adoption



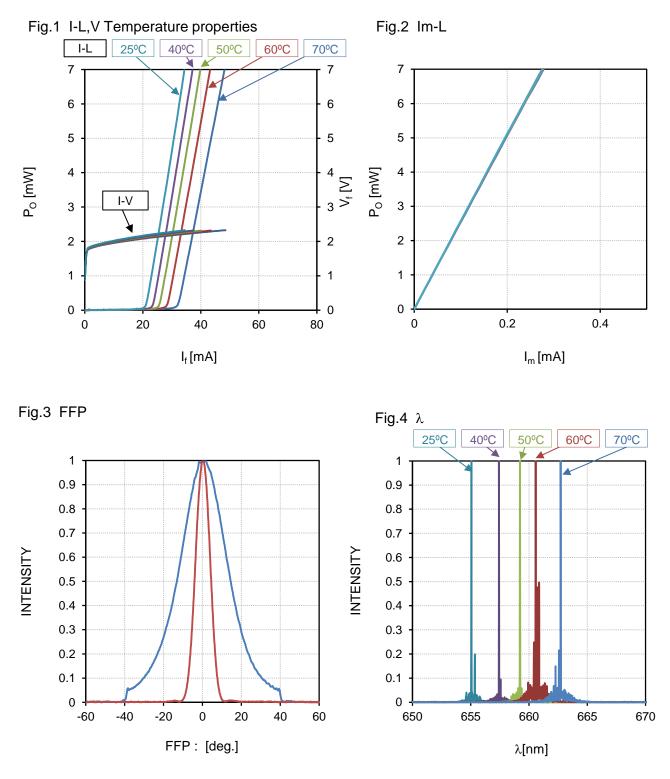
## •Absolute maximum ratings (T<sub>c</sub>= 25°C)

Parameter		Symbol	Ratings	Unit		
Optical output power		Po	7	mW		
Reverse voltage	Laser diode	$V_{R}$	2	V		
	Photo diode	V <sub>R</sub> (PD)	20	V		
Operating temperature		Тор	-10 to +70	°C		
Storage temperature		Tstg	-40 to +85	°C		

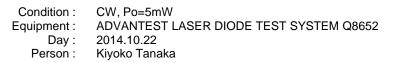
## •Electrical and optical characteristics $(T_c = 25^{\circ}C)$

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Threshold curret	l <sub>th</sub>	—	25	35	mA	-	
Operating current	I <sub>op</sub>	_	33	45	mA	P <sub>O</sub> =5mW	
Operating voltage	$V_{op}$	_	2.3	2.6	V	P <sub>O</sub> =5mW	
Output efficiency	η	0.4	0.6	1	W/A	2mW/ (I (5mW)- I (3mW))	
Monitor current	Im	0.08	0.2	0.5	mA	P <sub>O</sub> =5mW, V <sub>R</sub> (PD)=15V	
Parallel beam divergence	θ //	6	8.5	12	deg.	-P <sub>o</sub> =5mW	
Perpendicular beam divergence	$\theta_{\perp}$	24	28	34	deg.		
Parallel beam tolerance	$\Delta \theta$ //	-2	0	2	deg.		
Perpendicular beam tolerance	$\Delta\theta_{\perp}$	-3	0	3	deg.		
Emission point accuracy	ΔXYZ	-80	0	80	μm	-	
Lasing wavelength	λ	650	655	660	nm	P <sub>0</sub> =5mW	
Astigmatic difference	As	_	5	10	nm	NA=0.55, P <sub>O</sub> =3.5mW	

## •Electrical and Optical characteristics



\*This data is made from the result of having measured the sample extracted at random. Therefore, it is not what showed the ability of the whole product.



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