

## ELD65A5-1(Verson B)

- Applications  
Laser Pointer

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)



- Special Features
  - (1) Low threshold current with strained multi-quantum well structure.
  - (2) Maximum operating temperature of 50 .
- Absolute maximum ratings (Tc=25 )

Parameter		Symbol	Limit	Unit
Output Power		P <sub>o</sub>	7	mW
Reverse Voltage	Laser	V <sub>R</sub> (LD)	2	V
	PIN photodiode	V <sub>R</sub> (PIN)	30	V
Operating temperature		T <sub>op</sub>	-10~+50	
Storage temperature		T <sub>stg</sub>	-40~+85	

- Electrical and optical characteristics (Tc=25 )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Threshold Current	I <sub>th</sub>	-	15	-	mA	-
Operating Current	I <sub>op</sub>	-	20	25	mA	P <sub>o</sub> =5mW
Operating Voltage	V <sub>op</sub>	-	2.1	2.6	V	P <sub>o</sub> =5mW
Differential Efficiency	?	-	0.9	-	mW/mA	P <sub>o</sub> =3-5mW
Monitor Current	I <sub>m</sub>	25	100	800	uA	P <sub>o</sub> =5mW, V <sub>R</sub> (PIN)=15V
Parallel Divergence angle	?//*	6	8	16	deg	P <sub>o</sub> =5mW
Perpendicular Divergence Angle	? *	25	38	45	deg	
Peak Wavelength	?	645	650	660	nm	

\*?// and? are defined as the angle within which the intensity is 50% of the peak value

\*Transverse side mode intensity is less than 5% of the peak value.

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● Im Classification:

Type	A	B	C	D	E
Range(uA)	25 - 50	50 - 100	100 - 200	200 - 400	400 - 800

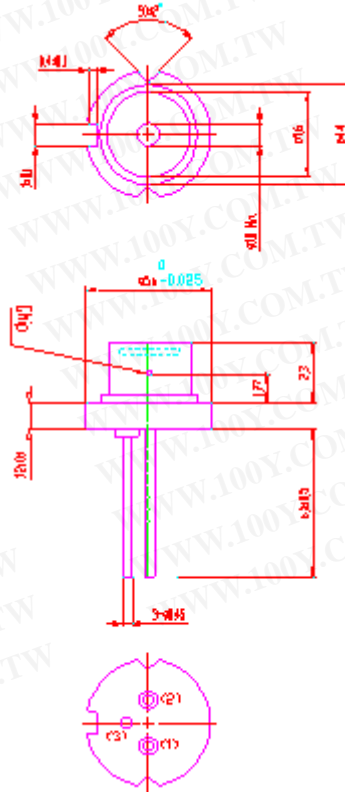
● Judgment of Light shape:

- a. Check by visual inspection after focus by lens.
- b. Light dot diameter < 15 mm at 15 meter from light source.

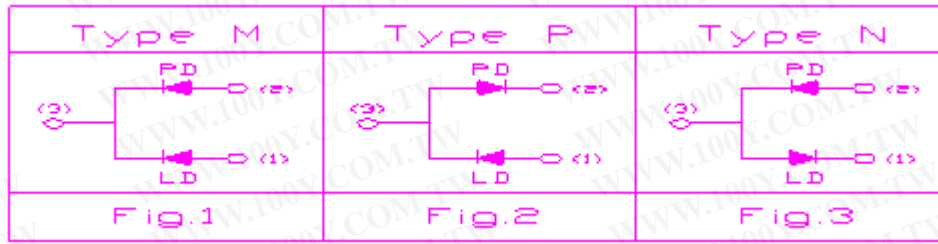
- Package and lead configuration please refer to our drawing.
- Customized product is welcomed.

Package and Lead Configuration

● Package Drawing: Type A



● Lead Configuration:



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