

**ELITE ADVANCED LASER CORPORATION**  
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**產品規格書 ( Data Sheet )**

**型號 : ELD65A5-1**

**腳位 : AN**

**等級 :**

**版本 : Version B**

**Customer Approval By:**

**ELD65A5-1 (Version B)**

- Applications :  
Laser Pointer



- Special Features
  - (1) Low threshold current with strained multi-quantum well structure.
  - (2) Maximum operating temperature of 50 °C.

- Absolute maximum ratings (Tc=25 °C)

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

- Electrical and optical characteristics (Tc=25 °C)

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

\* // 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.

- Im Classification:

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

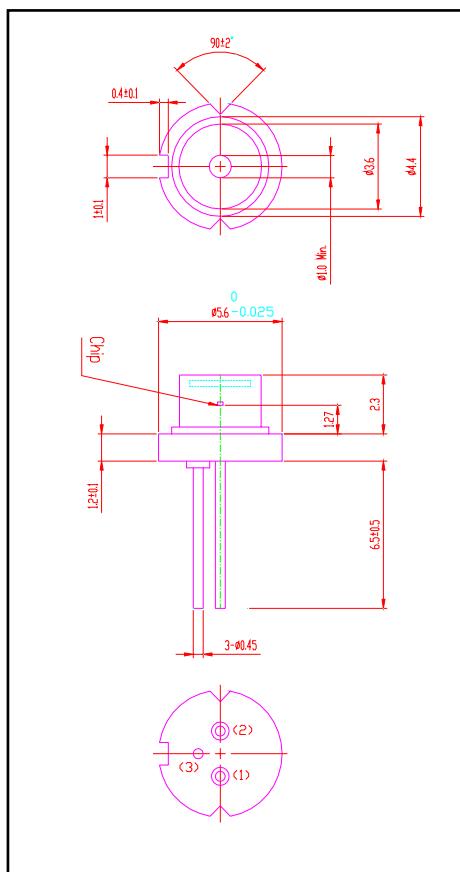
- Judgment of Light shape :
  - a. Check by visual inspection after focus by lens.
  - b. Light dot diameter <15mm at 15 meter from light source.
- Package and lead configuration please refer to our drawing.
- Customized product is welcomed.

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**65A5-1 (Version B)**

## Package and Lead Configuration

- Package Drawing: Type A



- Lead Configuration:

Type M	Type P	Type N
Fig.1	Fig.2	Fig.3

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**Typical Characteristics of ELD65A5-1 (Version B)**