ELITE ADVANCED LASER CORPORATION

10F, 35 Chiau An Street, Chung Ho, Taipei Hsien, Taiwan R.O.C.
TEL: 886-2-8245-6186   FAX: 886-2-8245-3100

Data Sheet

ELD65A5-3 AN

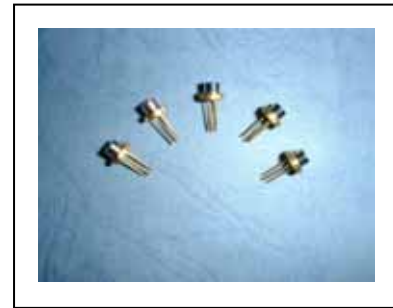**Version B**

Customer Approval by:

ELITE ADVANCED LASER CORPORATION

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ELD65A5-3 (Version B)

- Applications
    - Bar Code Reader
    - Industrial Module
    - Laser Pointer

- 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		Po	7	mW
Reverse Voltage	Laser	$V_{R(LD)}$	2	V
	PIN photodiode	$V_{R(PIN)}$	30	V
Operating temperature		Top	-10~+50	
Storage temperature		Tstg	-40~+85	

- Electrical and optical characteristics (Tc=25)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Threshold Current	Ith	-	21	30	mA	-
Operating Current	lop	-	28	35	mA	Po=5mW
Operating Voltage	Vop	-	2.2	2.6	V	Po=5mW
Differential Efficiency		-	0.6	-	mW/mA	Po=3-5mW
Monitor Current	Im	25	100	800	uA	Po=5mW, $V_{R(PIN)}$=5V
Parallel Divergence angle	//*	6	8	12	deg	
Perpendicular Divergence Angle	*	25	33	40	deg	
Parallel Deviation Angle	//	-3	-	+3	deg	Po=5mW
Perpendicular Deviation Angle		-3	-	+3	deg	
Emission Point Accuracy	X Y Z	-80	-	+80	μ m	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.
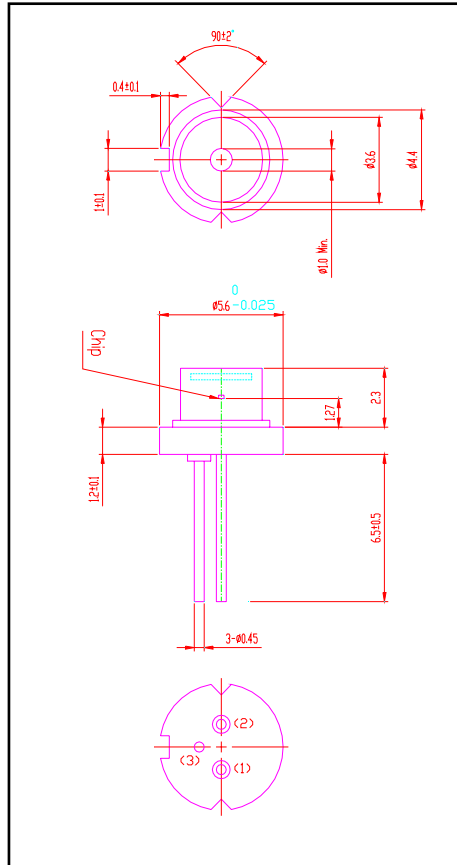
- Im Classification:

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

- Package and lead configuration please refer to our drawing.

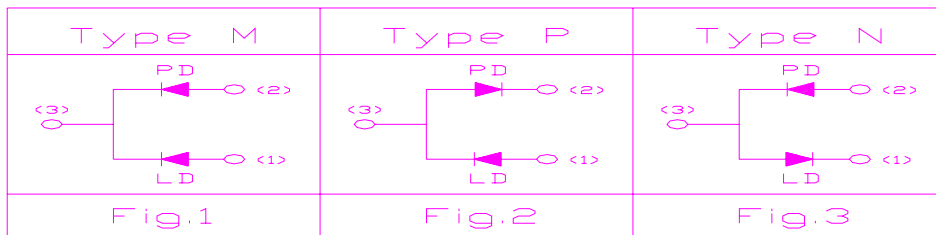- We can also make per your specification request.   Please contact our sales.

65A5-3 (Version B)

Package and Lead Configuration

● Package Drawing: Type A

● Lead Configuration:

eLASER

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Typical Characteristics of   ELD65A5-3 (Version B)

Optical Power vs. Forward Current

Forward Voltage vs. Forward Current

Monitor Current vs. Forward Current

Lasing Spectrum

Far Field Patterns ($\theta \perp$)

Far Field Patterns ($\theta \parallel$)