

# Egismos *DATASHEET*

## 655m Compact Laser Diode Modules Key features

Visible light  $\lambda = 655\text{nm}$   
 Output powers = 5mW  
 Package type = 5.6mm $\phi$   
 High reliability  
**Applications**

Laser Pointer & General Purpose Red Laser Light Source  
 Bar Code Reader & High Precision Measuring Instruments  
 Laser Module & High Precision Engineering Instruments  
**Laser Diode Solutions**

RS-D6-7-655-5 is a MOCVD grown 655nm band InGaAlP laser diode. It's an attractive light source, with a typical light output power of 5mW. It's suitable for use as high reliability laser diode in a wide range of industrial application.



RS-D6-7-655-5

## Electrical and Optical Characteristics at $T_c = 25^\circ\text{C}$

Item	Symbols	Min.	Typ.	Max.	Unit	Condition
Threshold Current	$I_{th}$	-	20	25	mA	
Operating Current	$I_{op}$	-	25	35	mA	$P_o = 5\text{mW}$
Operating Voltage	$V_{op}$	-	2.15	2.5	V	$P_o = 5\text{mW}$
Peak Wavelength	$\lambda_p$	645	655	660	nm	$P_o = 5\text{mW}$
Differential efficiency	$\eta$	0.5	0.75	1.0	MW/mA	$P_o = 3 \sim 5\text{mW}$
Beam Divergence	$\Theta_{//}$	6	8	10	deg	$P_o = 5\text{mW}$
	$\Theta_{\perp}$	24	28	35	deg	$P_o = 5\text{mW}$
Beam Angle	$\Delta\Theta_{//}$	-3	0	+3	deg	$P_o = 5\text{mW}$
	$\Delta\Theta_{\perp}$	-3	0	+3	deg	$P_o = 5\text{mW}$
Monitor Current	$I_m$	0.05	0.1	0.3	mA	$P_o = 5\text{mW}$ , $V_{RD} = 5\text{V}$
Emission point accuracy	$\Delta X, \Delta Y, \Delta Z$	-80	0	+80	$\mu\text{m}$	$P_o = 5\text{mW}$ ,

**Egismos**

<http://www.egismos.com>  
 TEL: +1-888-3481454  
 FAX: +1-604-4339864  
 E-Mail: [sales@egismos.com](mailto:sales@egismos.com)

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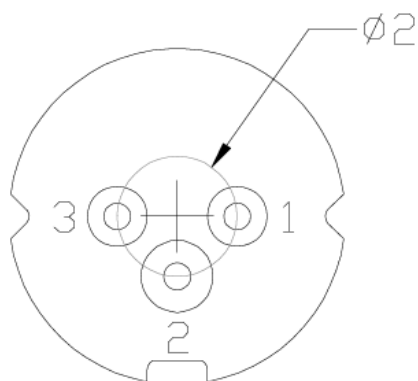
## Absolute Maximum Rating at Tc=25°C

Items	Symbols	Values	Unit
Light output power	Po	7	mW
Reverse voltage(LD)	V <sub>RL</sub>	2	V
Reverse volgate(PD)	V <sub>RD</sub>	30	V
Forward current(PD)	I <sub>FD</sub>	10	mA
Case Temperature	Tc	-10~+70	°C
Storage Temperature	Ts	-40~+85	°C

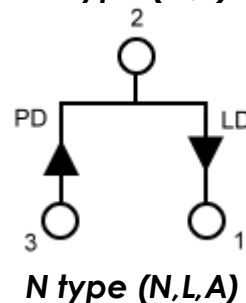
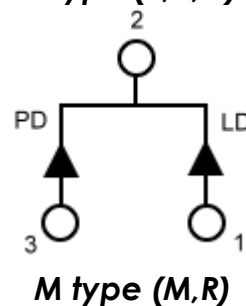
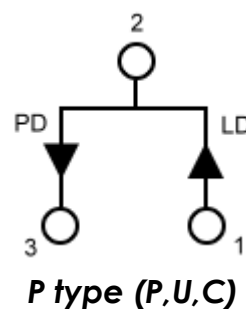


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## Electrical Connection



## Package Type



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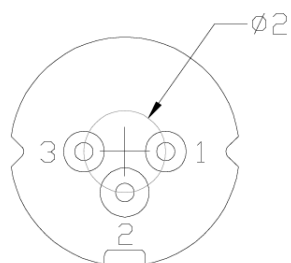
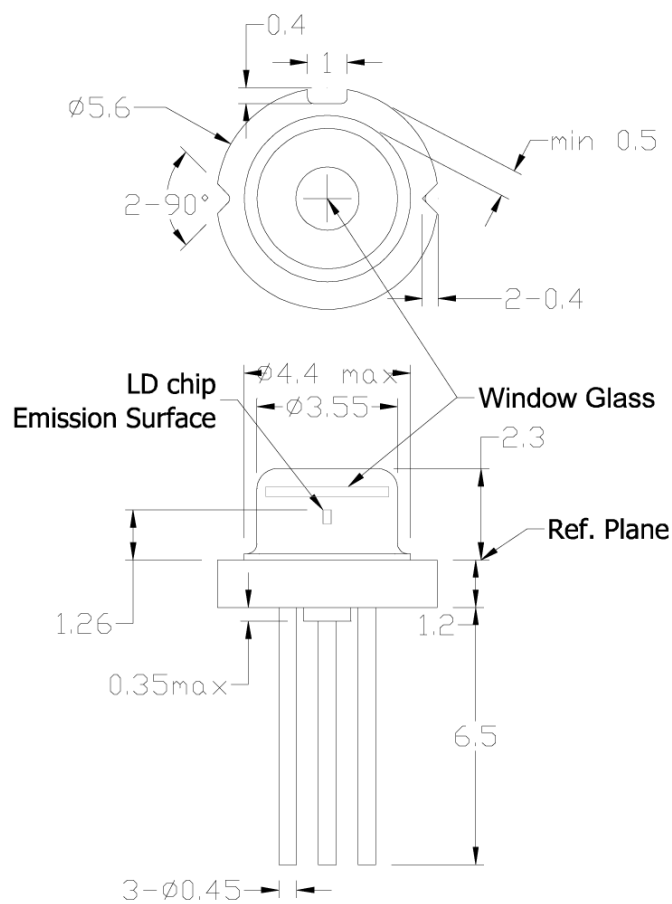
E-Mail:sales@eGismos.com

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## Laser Diode Package Drawing



RS-D6-7-655-5



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