

# Red Laser Diode

### **Application**

Industrial use / Biomedical

#### **Property**

Wavelength  $\lambda = 650 \text{nm}$ 

Output Power = 5mW

Package Type =  $\phi$  5.6mm

#### Introduction

Egismos currently markets AlGaInP based red laser diodes in the 635nm ~ 670nm wavelengths range. The low operating current and high temperature of the laser diodes are achieved through using misoriented substrate and MQW (Strain compensated) active layer. Egismos laser diodes are highly rated in a broad range of applications including, but not limited to, laser pointers, green lasers, blue laser DVD, laser barcode scanners, diode laser equipments, medical instruments and aerospace applications.



## Red Laser Diode Key features

Absolute Maximum Rating at Tc=25℃			
Items	Symbols	Values	Unit
Optical Output Power	Po(CW)	5	mW
Reverse Voltage	V	2	V
Operating Temperature	То	-10~+50	$^{\circ}$ C
Storage Temperature	Ts	-10~+70	$^{\circ}$

Electrical and Optical Characteristics at Tc=25℃					C	
Item	Symbols	Min	Тур.	Max.	Unit	Condition
Optical Output Power	Ро	-	-	5	mW	-
Threshold Current	Ith	-	24	30	mA	-
Operating Current	lop	-	32	42	mA	Po=5mW
Operating Voltage	Vop	-	2.2	2.6	V	Po=5mW
Peak Wavelength	λр	640	650	660	nm	Po=5mW

www.egismos.com tel:+1-360-3893347 sales@egismos.com

Dcc no: EG-QS-T-PM-ST-0022 Form no: EG-QR-T-QA-0003 Date:150512

<u>EGISMOS</u>	650nm Laser Diode			DE	6-5-650-5-P	
Beam Divergence	θ//	6	8	12	deg	Po=5mW
	0	22	32	38	deg	Po=5mW

Electrical Connection(Bottom	Package Type		
View]			
Viewj			
3 0 1. Unit (mm)	PD LD		
Bottom View	O <sub>2</sub>		
Package Drawing			
1.2±0.1 6.5±0.1	2.3±0.1 1.0±0.1 2.3±0.1 2.3±0.1 2.3±0.1 2.3±0.1 2.3±0.1		

Specifications are subject to change without notice.





Dcc no: EG-QS-T-PM-ST-0022 Form no: EG-QR-T-QA-0003 Date:150512