

IR Laser Diode

Application

Industrial use / Biomedical

Property

Wavelength $\lambda = 850 \text{nm}$

Output Power = 50mW

Package Type = ϕ 5.6mm

Introduction

Egismos currently markets AlGaAs infrared laser diodes in the 780nm ~ 1550nm 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.



IR Laser Diode Key features

Absolute Maximum Rating at Tc=25℃				
Items	Symbols	Values	Unit	
Optical Output Power	Po(CW)	50	mW	
Reverse Voltage	V	2	V	
Operating Temperature	То	-10~+50	$^{\circ}$	
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	-	-	50	mW	-
Threshold Current	Ith	-	15	20	mA	-
Operating Current	lop	-	65	80	mA	Po=50mW
Operating Voltage	Vop	-	2.1	2.4	V	Po=50mW
Peak Wavelength	λр	840	850	860	nm	Po=50mW

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<u>EGISMOS</u>	850nm Laser Diode D6-5-850-50			<u>-5-850-50</u>		
Beam Divergence	θ//		11	16	deg	Po=50mW
	θ≟		17	24	deg	Po=50mW

Electrical Connection(Bottom	Package Type	
View]		
Unit (mm) Bottom View	PD LD	
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.





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