

Egismos *DATASHEET*

850nm Compact Laser Diode Modules Key features

Visible light $\lambda = 850\text{nm}$
 Output powers =40mW
 Package type=5.6mm ϕ
 High reliability

Applications

General Purpose Infrared Red Laser Light Source
 Optical Communication & Infrared Red Laser Module for Industry Application
 Military Application & Optical Sensor Application of Engineering Instruments

Laser Diode Solutions

SS-D6-6-855-40 is a MOCVD grown 850nm band laser diode. It's an attractive light source, with a typical light output power of CW 40mW. It's suitable for use as high reliability laser diode in a wide range of industrial application.



SS-D6-6-855-40

Electrical and Optical Characteristics at Tc=25°C

Item	Symbols	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	Po	-	40	-	mW	-
Threshold Current	Ith	-	30	45	mA	-
Operating Current	Iop	70	95	110	mA	Po=40mW
Slope Efficiency	SE	0.3	0.6	0.9	mW/mA	20~40mW
Operating Voltage	Vop	-	2.0	2.5	V	Po=40mW
Peak Wavelength	λ_p	845	855	865	nm	Po=40mW
Beam Divergence	$\Theta_{//}$	7	9	12	deg	Po=40mW
	Θ_{\perp}	25	32	40	deg	Po=40mW
Beam Angle	$\Delta\Theta_{//}$	-	-	± 2.0	deg	Po=40mW
	$\Delta\Theta_{\perp}$	-	-	± 3.0	deg	Po=40mW
Monitor Current	Im	0.05	0.2	0.5	mA	Po=40mW
Optical Distance	$\Delta X, \Delta Y, \Delta Z$	-	-	± 60	μm	
Astigmatism	As	-	-	15	μm	

Egismos

<http://www.egismos.com>

TEL:+1-888-3481454

FAX:+1-604-4339864

E-Mail:sales@eGismos.com

Egismos *DATASHEET*

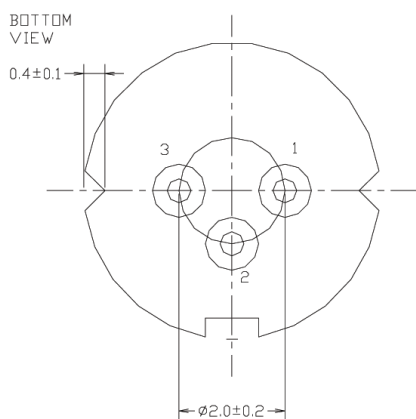
Absolute Maximum Rating at Tc=25°C

Items	Symbols	Values	Unit
Optical Output Power	Po	42	mW
Laser Diode Reverse Voltage	V	2	V
Photo Diode Reverse Voltage	V	30	V
Operating Temperature	To	-10~+60	°C
Storage Temperature	Ts	-40~+85	°C

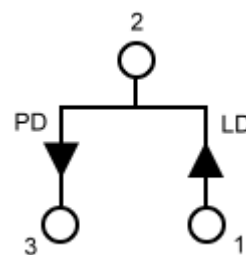


SS-D6-6-855-40

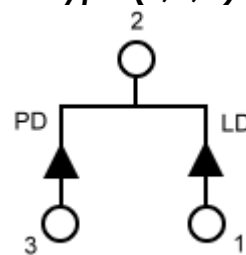
Electrical Connection



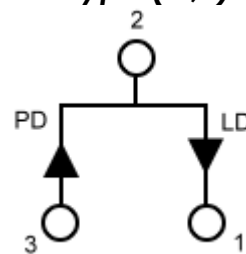
Package Type



P type (P,U,C)



M type (M,R)



N type (N,L,A)

Egismos

<http://www.egismos.com>

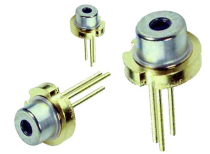
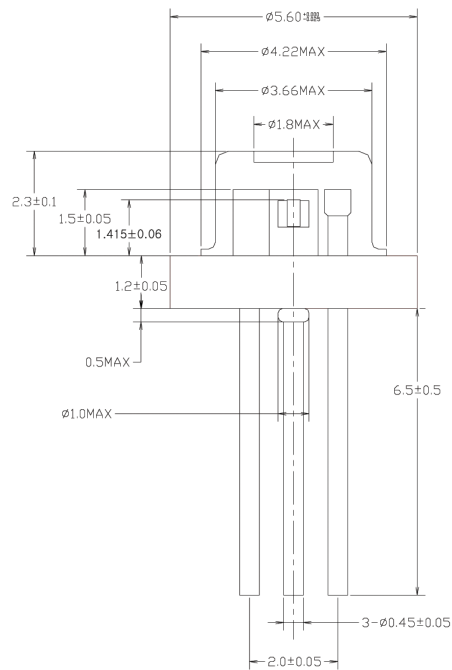
TEL:+1-888-3481454

FAX:+1-604-4339864

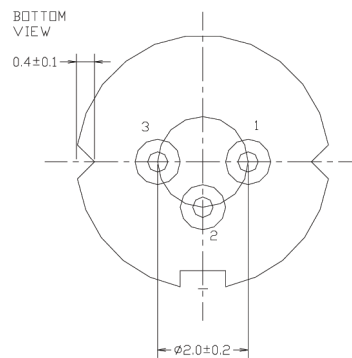
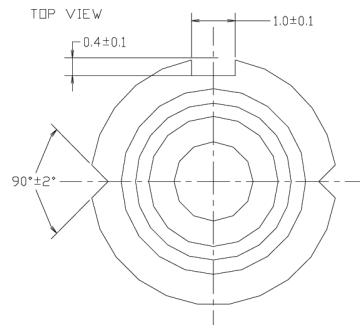
E-Mail:sales@eGismos.com

Egismos *DATASHEET*

Laser Diode Package Drawing



SS-D6-6-855-40



Egismos

<http://www.egismos.com>

TEL: +1-888-3481454

FAX: +1-604-4339864

E-Mail: sales@egismos.com