Laser diode, 635nm, 20mW, diameter 5.6mm

Reference: AM8989
EAN13: -
HS code: 90132000

Product attributes:

Product features:

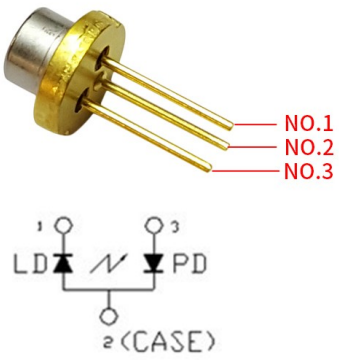
Wavelength: 635-640 nm
Housing: TO-18
Waterproof grade: IP20

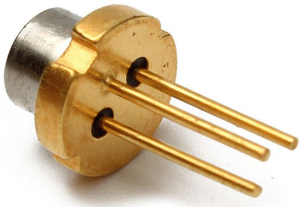
Product description:

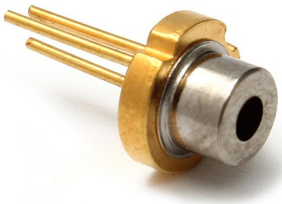
Laser diode with a wavelength of 635nm and a power of 20mW.

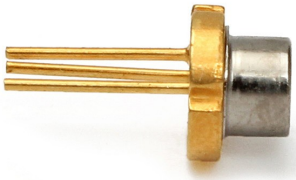
wavelength 635nm
voltage 2.3-2.6V
reverse voltage 10V
current 75-85mA
protection level IP20
working temperature -10 - 50 °C
size 5.6x5.6x10 mm
price for 1 pc

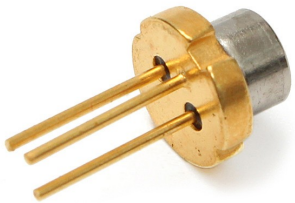
Pin assignment: pin no. 2 (case)=ANODE, pin no. 1=LD cathode, pin no. 3=PD anode

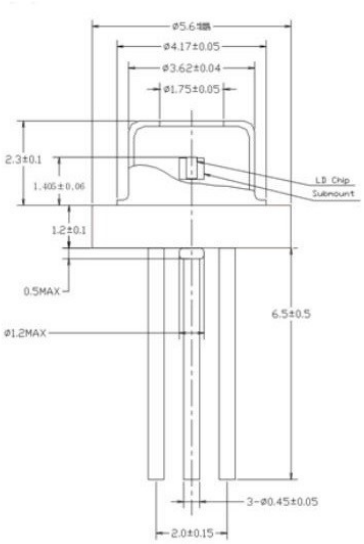


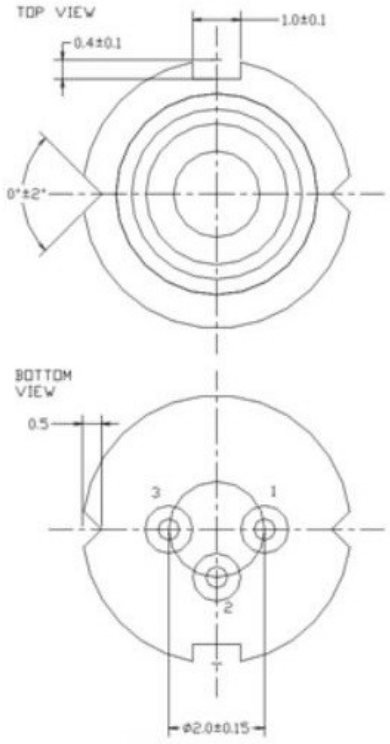












◆ **ABSOLUTE MAXIMUM RATING at Tc=25℃**

Items	Symbols	Values	Unit
Optical Output Power	P	22	mW
Laser Diode Reverse Voltage	V	10	V
Photo Diode Reverse Voltage	V	30	V
Operating Temperature	T_{opr}	-10 ~ +50	℃
Storage Temperature	T_{stg}	-40 ~ +85	℃

◆ **ELECTRICAL and OPTICAL CHARACTERISTICS at Tc=25℃**

Items	Symbols	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	P_o	-	20	-	mW	-
Threshold Current	I_{th}	-	50	60	mA	-
Operating Current	I_{op}	-	75	85	mA	Po=20mW
Operating Voltage	V_{op}	-	2.3	2.6	V	Po=20mW
Slope Efficiency	η_s	0.4	0.7	1.0	mW/mA	Po=20mW
Lasing Wavelength	λ_p	634	639	644	nm	Po=20mW
Beam Divergence	$\theta_{//}$	6	9	12	deg	Po=20mW
	$\theta_{\perp}$	25	30	35	deg	Po=20mW
Beam Angle	$\Delta\theta_{//}$	-3	-	3	deg	Po=20mW
	$\Delta\theta_{\perp}$	-3	-	3	deg	Po=20mW
Monitor Current	I_m	0.1	0.2	0.4	mA	Po=20mW
Optical Distance	ΔX, ΔY, ΔZ	-	-	± 60	um	-