

Laser diode, 650nm, 5mW, diameter 5.6mm

Reference: AM5734

EAN13: -

HS code: 90132000

Product attributes:

Product features:

Light color: Red

Wavelength: 650 nm

Voltage: 2.2-2.7 V DC

Performance: 5 mW

Housing: TO-18

Waterproof grade: IP20

Lifetime: 5,000 hours



Product description:

Laser diode with wavelength 650nm and power 5mW.

wavelength 650nm

voltage 2.2-2.6V

reverse voltage 2V

current 28-38mA

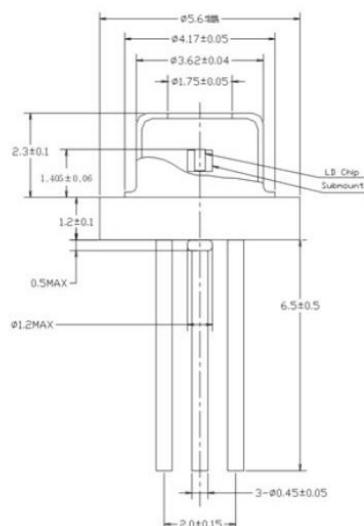
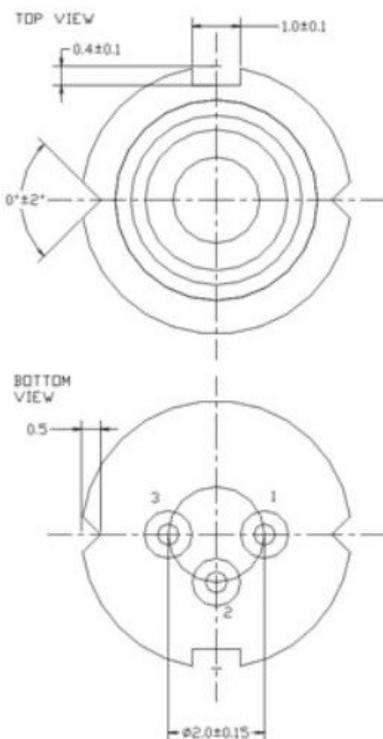
degree of protection IP20

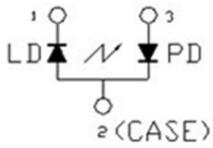
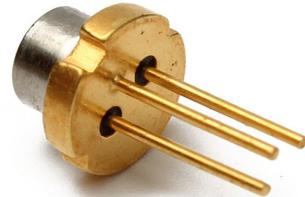
working temperature -10 - 50 °C

size 5.6x5.6x 10 mm

price for 1 pc

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





◆ ABSOLUTE MAXIMUM RATING at Tc=25°C

Items	Symbols	Values	Unit
Optical Output Power	P	7	mW
Laser Diode Reverse Voltage	V	2	V
Photo Diode Reverse Voltage	V	30	V
Operating Temperature	T _{opr}	-10 ~ +50	°C
Storage Temperature	T _{stg}	-40 ~ +85	°C

◆ ELECTRICAL and OPTICAL CHARACTERISTICS at Tc=25°C

Items	Symbols	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	P _o	-	5	-	mW	-
Threshold Current	I _{th}	-	17	30	mA	-
Operating Current	I _{op}	-	24	35	mA	P _o =5mW
Operating Voltage	V _{op}	-	2.2	2.6	V	P _o =5mW
Lasing Wavelength	λ _p	650	655	660	nm	P _o =5mW
Beam Divergence	θ	6	9	12	deg	P _o =5mW
	θ _⊥	22	29	38	deg	P _o =5mW
Beam Angle	Δθ	-	-	±1.5	deg	P _o =5mW
	Δθ _⊥	-	-	±2.5	deg	P _o =5mW
Monitor Current	I _m	0.1	0.2	0.5	mA	P _o =5mW
Optical Distance	ΔX, ΔY, ΔZ	-	-	±80	μm	-