

Laser diode, 780nm, 5mW, diameter 5.6mm

Reference: AM5295
EAN13: -
HS code: 90132000



Product attributes:

Product features:

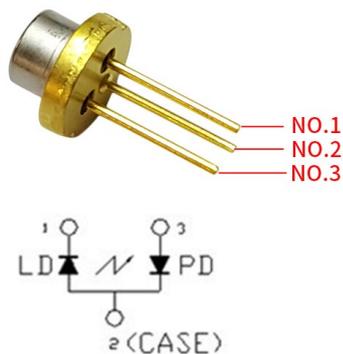
Light color: Infrared
Wavelength: 780 nm
Voltage: 1.9-2.3 V DC
Housing: TO-18
Waterproof grade: IP20
Lifetime: 5,000 hours

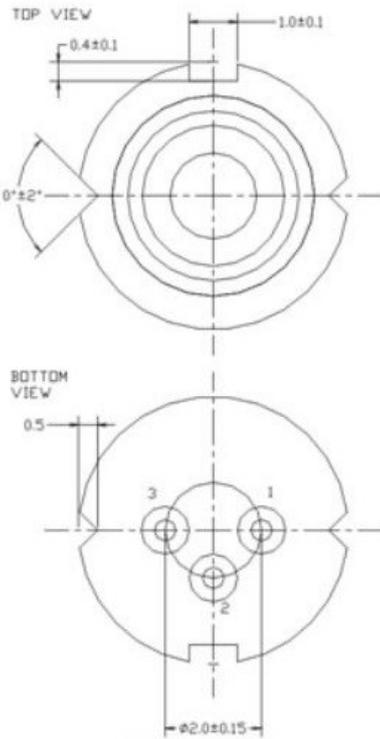
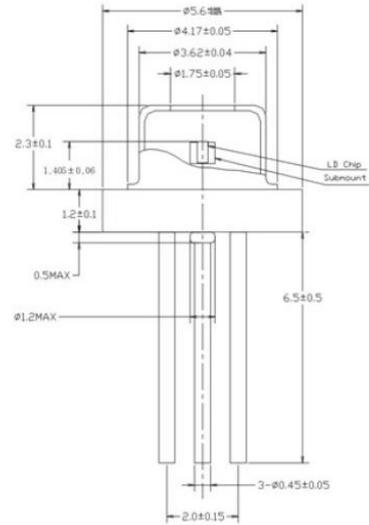
Product description:

Laser diode with wavelength 785nm and power 5mW.

wavelength 780nm
voltage 1.9-2-3V
current 26-40mA
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=cathode LD, pin no.3=anode PD





◆ ABSOLUTE MAXIMUM RATING

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 ~ +40	°C
Storage Temperature	T _{stg}	-40 ~ +80	°C

◆ ELECTRICAL and OPTICAL CHARACTERISTICS

Items	Symbols	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	P _o	-	5	-	mW	-
Threshold Current	I _{th}	-	13	30	mA	-
Operating Current	I _{op}	-	28	40	mA	P _o =5mW
Operating Voltage	V _{op}	-	1.9	2.3	V	P _o =5mW
Slope Efficiency	SE	0.3	0.4	0.7	mW/mA	P _o 3 - 5mW
Lasing Wavelength	λ _p	770	782	800	nm	P _o =5mW
Beam Divergence	θ _∥	8	9	15	deg	P _o =5mW
	θ _⊥	25	28	40	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	0.3	0.6	mA	P _o =5mW
Optical Distance	ΔX, ΔY, ΔZ	-	-	±60	μm	P _o =5mW
Astigmatism	As	-	-	15	μm	P _o =5mW