

# Laser diode, 980nm, 50mW, diameter 5.6mm

## Product codes:

Reference: AM4872

EAN13: -

UPC: 90132000

## Product features:

Light color: Infrared

Wavelength: 980 nm

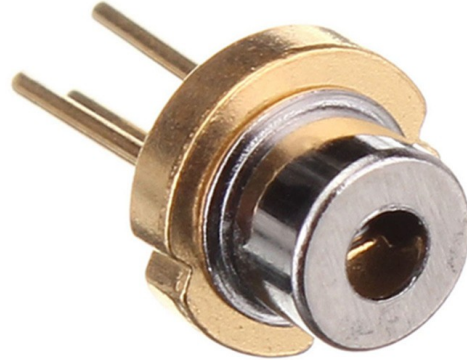
Voltage: 1.6-2.1 V DC

Performance: 50 mW

Housing: TO-18

Waterproof grade: IP20

Lifetime: 5,000 hours



## Product attributes:

## Product description:

Laser diode with a wavelength of 980nm and a power of 10mW.

wavelength 980nm

voltage 1.6-2.1V

reverse voltage 2V

current 78-82mA

degree of protection IP20

working temperature -10 - 50 °C

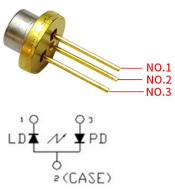
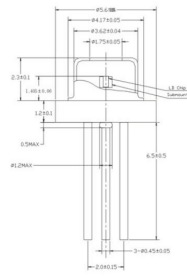
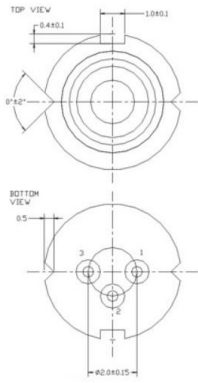
size 5.6x5.6x 10 mm

price for 1 piece

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

## Product gallery:

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■ Electrical and optical Characteristics (25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Current	$I_F$	—	—	20	30	mA
Operating Current	$I_{OP}$	Per-Rev. ①	—	75	85	mA
Forward Voltage	$V_F$	Per-Rev. ②	—	1.6	2.2	V
Power	$P_{LED}$	Per-Rev. ③	—	—	—	mW
Efficiency	$\eta$	Per-Rev. ④	0.5	0.8	—	%
Wavelength	$\lambda$	Per-Rev. ⑤	—	625	635	nm
Viewing Angle (Half)	$\theta_{1/2}$	Per-Rev. ⑥	—	120	140	deg.
Beam Spread	$\theta_{BS}$	Per-Rev. ⑦	—	28	35	deg.
Peak Emission Angle	$\theta_{PA}$	Per-Rev. ⑧	—	—	—	deg.
Forward Emission Angle	$\theta_{FA}$	Per-Rev. ⑨	—	—	—	deg.
Reverse Breakdown Voltage	$V_{BR}$	Per-Rev. ⑩	—	—	—	V
Reverse Power Dissipation	$P_{R}$	Per-Rev. ⑪	—	—	—	mW
Lead Temperature	$T_{L}$	Per-Rev. ⑫	—	—	—	°C

① to ⑫ are to be used in accordance with the conditions in the test method.

■ Specifications

Wavelength: 625nm  
 Light Output: 50mW CW  
 Package Type: TO-18 (3-Wire)

■ Absolute Maximum Ratings (25°C)

Parameter	Symbol	Rating	Unit
Forward Current	$I_F$	30	mA
Power	$P_{LED}$	30	mW
Storage Temperature	$T_{STG}$	-55 to 125	°C
Operating Temperature	$T_{OP}$	-40 to 100	°C
Temperature	$T_{L}$	260	°C

① to ⑫ are to be used in accordance with the conditions in the test method.

