

# Laser diode, 635nm, 5mW, diameter 5.6mm

## Product codes:

Reference: AM8180

EAN13: -

UPC: 90132000

## Product features:

Light color: Red

Wavelength: 635-640 nm

Voltage: 2.0-2.2 V DC

Housing: TO-18

Waterproof grade: IP20

Lifetime: 5,000 hours



## Product attributes:

## Product description:

Laser diode with wavelength 635nm and power 5mW.

wavelength 635nm

voltage 2.2-2.7V

reverse voltage 2V

current 32-45mA

degree of protection IP20

working temperature -10 - 50 °C

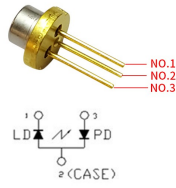
size 5.6x5.6x 10 mm

price for 1 pc

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

## Product gallery:

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▲ABSOLUTE MAXIMUM RATING at Tc=25°C

Items	Symbol	Values	Unit
Optical Output Power	P <sub>o</sub>	6	mW
Laser Diode Reverse Voltage	V <sub>r</sub>	2	V
Photo Diode Reverse Voltage	V <sub>r</sub>	30	V
Operating Temperature	T <sub>op</sub>	-10 ~ +40	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +80	°C

▲ELECTRICAL and OPTICAL CHARACTERISTICS at Tc=25°C

Items	Symbol	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	P <sub>o</sub>	-	3	-	mW	-
Threshold Current	I <sub>th</sub>	-	20	30	mA	-
Operating Current	I <sub>op</sub>	-	10	40	mA	Pin=0V
Operating Voltage	V <sub>op</sub>	-	2.2	2.7	V	Pin=0V
Lasing Wavelength	λ <sub>o</sub>	680	680	680	nm	Pin=0V
	λ <sub>o</sub>	6.5	6.5	6.5	nm	Pin=0V
Beam Divergence	θ <sub>1/2</sub>	28	34	40	deg	Pin=0V
Beam Angle	2θ <sub>1/2</sub>	-	58	80	deg	Pin=0V
Modulation Frequency	f <sub>m</sub>	-	100	100	MHz	Pin=0V
Optical Distance	OS, OS <sub>1/2</sub>	-	400	400	μm	-