

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

## Product codes:

Reference: AM8989

EAN13: -

UPC: 90132000



## Product features:

Wavelength: 635-640 nm

Housing: TO-18

Waterproof grade: IP20

## Product attributes:

## 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

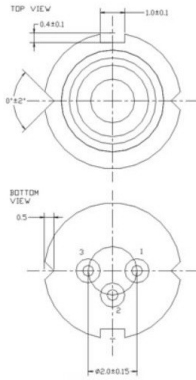
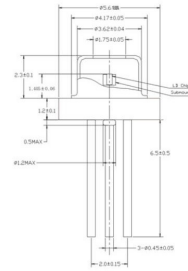
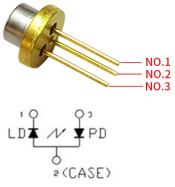
size 5.6x5.6x10 mm

price for 1 pc

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

## Product gallery:

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◆ ABSOLUTE MAXIMUM RATING at Tc=25 °C

Items	Symbols	Values	Unit
Optical Output Power	P	30	mW
Laser Diode Reverse Voltage	V	10	V
Photo Diode Reverse Voltage	V	30	V
Operating Temperature	T <sub>op</sub>	-10 ~ 60	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ 100	°C

◆ ELECTRICAL and OPTICAL CHARACTERISTICS at Tc=25 °C

Items	Symbols	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	P	-	20	-	mW	-
Threshold Current	I <sub>t</sub>	-	80	80	mA	-
Operating Current	I <sub>o</sub>	-	75	85	mA	P=30mW
Operating Voltage	V <sub>o</sub>	2.0	2.6	-	V	P=30mW
Slope Efficiency	η <sub>s</sub>	0.4	0.7	1.0	W/WmA	P=30mW
Lasing Wavelength	λ <sub>s</sub>	634	638	644	nm	P=30mW
Beam Divergence	θ <sub>1/2</sub>	5	5	12	mrad	P=30mW
	θ	20	30	30	mrad	P=30mW
Beam Angle	Δθ <sub>1/2</sub>	-3	-	3	mrad	P=30mW
	Δθ	-3	-	3	mrad	P=30mW
Monitor Current	I <sub>m</sub>	0.1	0.0	0.4	mA	P=30mW
Optical Distance	ΔL, ΔV, ΔZ	-	1.80	-	mm	-