

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

Product codes:

Reference: AM5295

EAN13: -

UPC: 90132000

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 attributes:

Product description:

Laser diode with wavelength 785nm and power 5mW.

wavelength 780nm

voltage 1.9-2-3V

current 26-40mA

degree of protection IP20

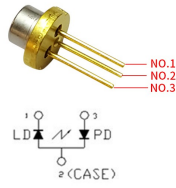
working temperature -10 - 50 °C

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

Product gallery:



◆ ABSOLUTE MAXIMUM RATINGS

Items	Symbol	Values	Unit
Optical Output Power	P _o	7	mW
Laser Diode Reverse Voltage	V _r	2	V
Photo Diode Reverse Voltage	V _r	30	V
Operating Temperature	T _{op}	-10 ~ 40	°C
Storage Temperature	T _{stg}	-40 ~ 100	°C

◆ ELECTRICAL and OPTICAL CHARACTERISTICS

Items	Symbol	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	P _o	-	3	-	mW	-
Threshold Current	I _{th}	-	15	30	mA	-
Operating Current	I _{op}	-	20	40	mA	Forward
Operating Voltage	V _{op}	1.8	2.3	3.0	V	Forward
Rise Time	t _r	0.5	1.0	2.0	ns	Photo-Mode
Lasing Wavelength	λ	1.8	190	800	nm	Forward
Beam Divergence	θ	0.1	8	30	mrad	Forward
		0.2	20	40	mrad	Reverse
Beam Angle	α	0.1	-	0.15	mrad	Forward
		0.1	-	0.15	mrad	Reverse
Refractive Coefficient	n _c	0.1	0.1	0.6	nm	Forward
Optical Distance	L _{LD, LD, LD}	-	-	100	μm	Forward
Alignment	Δx	-	-	15	μm	Forward