

# Diodă laser, 780nm, 5mW, diametru 5.6mm

Referință: AM5295  
EAN13: -  
UPC: 90132000



## Atributele produsului:

## Caracteristicile produsului:

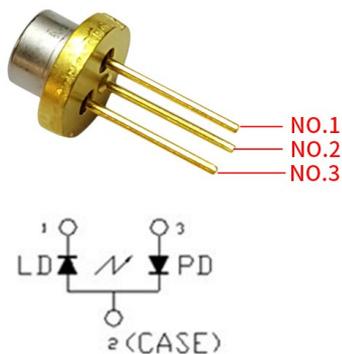
Culoarea luminii: Infraroșu  
Lungime de undă: 780 nm  
Tensiune: 1,9-2,3 V DC  
Locuințe: TO-18  
Acoperi: IP20  
Durata de viața: 5.000 de ore

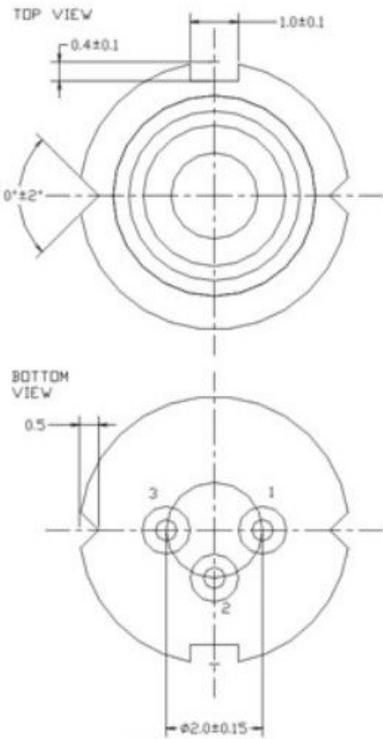
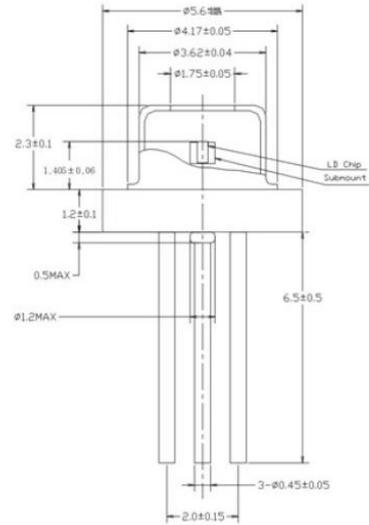
## Descriere produs:

Diodă laser cu lungimea de undă 785nm și putere 5mW.

lungime de undă 780nm  
tensiune 1.9-2-3V  
curent 26-40mA  
grad de protecție IP20  
temperatura de lucru -10 - 50 °C  
dimensiuni 5.6x5.6x 10 mm  
preț pentru 1 buc

conexiune pin: pin nr.2 (carcasă)=ANOD, pin nr.1=catod LD, pin nr.3=anod 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 <sub>opr</sub>	-10 ~ +40	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +80	°C

◆ ELECTRICAL and OPTICAL CHARACTERISTICS

Items	Symbols	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	P <sub>o</sub>	-	5	-	mW	-
Threshold Current	I <sub>th</sub>	-	13	30	mA	-
Operating Current	I <sub>op</sub>	-	28	40	mA	P <sub>o</sub> =5mW
Operating Voltage	V <sub>op</sub>	-	1.9	2.3	V	P <sub>o</sub> =5mW
Slope Efficiency	SE	0.3	0.4	0.7	mW/mA	P <sub>o</sub> 3 - 5mW
Lasing Wavelength	λ <sub>p</sub>	770	782	800	nm	P <sub>o</sub> =5mW
Beam Divergence	θ <sub>∥</sub>	8	9	15	deg	P <sub>o</sub> =5mW
	θ <sub>⊥</sub>	25	28	40	deg	P <sub>o</sub> =5mW
Beam Angle	Δθ <sub>∥</sub>	-	-	±1.5	deg	P <sub>o</sub> =5mW
	Δθ <sub>⊥</sub>	-	-	±2.5	deg	P <sub>o</sub> =5mW
Monitor Current	I <sub>m</sub>	0.1	0.3	0.6	mA	P <sub>o</sub> =5mW
Optical Distance	ΔX, ΔY, ΔZ	-	-	±60	μm	P <sub>o</sub> =5mW
Astigmatism	As	-	-	15	μm	P <sub>o</sub> =5mW