

# Laserová dióda, 635nm, 20mW, priemer 5.6mm

Kód produktu: AM8989  
EAN13: -  
HS kód: 90132000



## Varianty produktu:

## Parametry produktu:

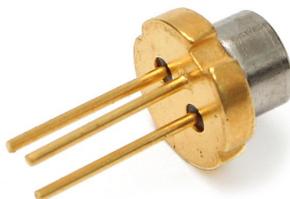
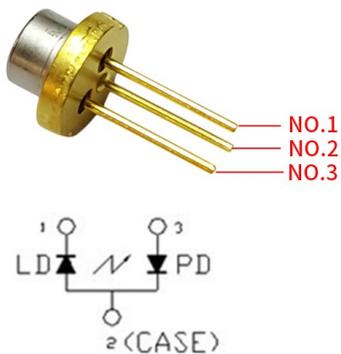
Vlnová dĺžka: 635-640 nm  
Puzdro: TO-18  
Krytie: IP20

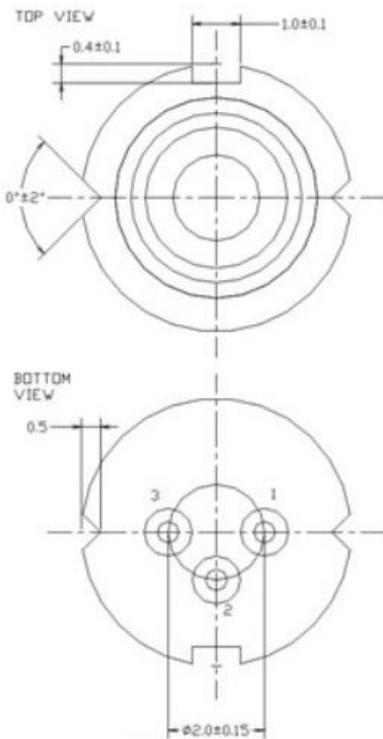
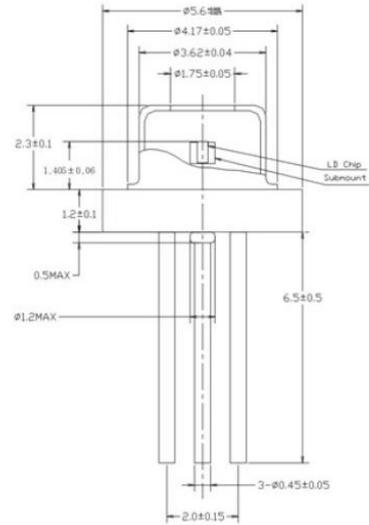
## Popis produktu:

Laserová dióda s vlnovou dĺžkou 635nm a výkonom 20mW.

vlnová dĺžka 635nm  
napätie 2.3-2.6V  
reverzné napätie 10V  
prúd 75-85mA  
stupeň krytia IP20  
pracovná teplota -10 - 50 °C  
veľkosť 5.6x5.6x 10 mm  
cena za 1 Ks

Zapojenie pinov: pin č.2 (case)=ÁNODA, pin č.1=katóda LD, pin č.3=anóda PD





◆ ABSOLUTE MAXIMUM RATING at Tc=25 °C

Items	Symbols	Values	Unit
Optical Output Power	P	22	mW
Laser Diode Reverse Voltage	V	10	V
Photo Diode Reverse Voltage	V	30	V
Operating Temperature	T <sub>op</sub>	-10 ~ +50	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +85	°C

◆ ELECTRICAL and OPTICAL CHARACTERISTICS at Tc=25 °C

Items	Symbols	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	P <sub>o</sub>	-	20	-	mW	-
Threshold Current	I <sub>th</sub>	-	50	60	mA	-
Operating Current	I <sub>op</sub>	-	75	85	mA	P <sub>o</sub> =20mW
Operating Voltage	V <sub>op</sub>	-	2.3	2.6	V	P <sub>o</sub> =20mW
Slope Efficiency	η <sub>s</sub>	0.4	0.7	1.0	mW/mA	P <sub>o</sub> =20mW
Lasing Wavelength	λ <sub>s</sub>	634	639	644	nm	P <sub>o</sub> =20mW
Beam Divergence	θ <sub>h</sub>	6	9	12	deg	P <sub>o</sub> =20mW
	θ <sub>v</sub>	25	30	35	deg	P <sub>o</sub> =20mW
Beam Angle	Δθ <sub>h</sub>	-3	-	3	deg	P <sub>o</sub> =20mW
	Δθ <sub>v</sub>	-3	-	3	deg	P <sub>o</sub> =20mW
Monitor Current	I <sub>m</sub>	0.1	0.2	0.4	mA	P <sub>o</sub> =20mW
Optical Distance	ΔX, ΔY, ΔZ	-	-	±60	um	-