

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

Reference: AM8180

EAN13: -

HS code: 90132000

Product attributes:

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

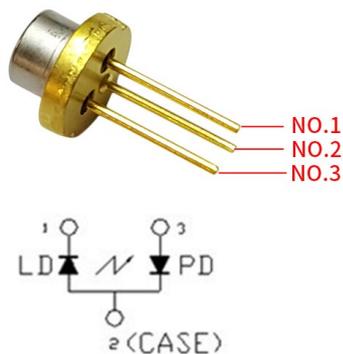


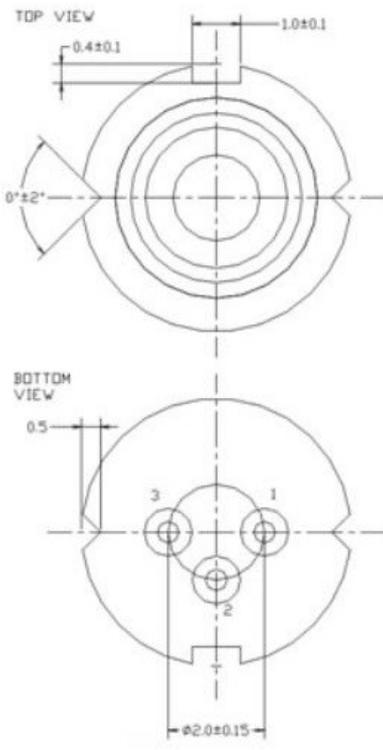
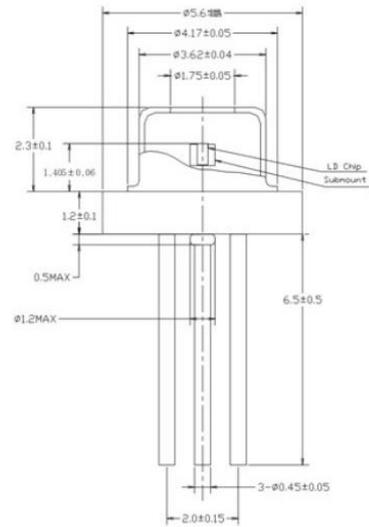
Product description:

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





◆ ABSOLUTE MAXIMUM RATING at Tc=25°C

Items	Symbols	Values	Unit
Optical Output Power	P	6	mW
Laser Diode Reverse Voltage	V	2	V
Photo Diode Reverse Voltage	V	30	V
Operating Temperature	Topr	-10 ~ +40	°C
Storage Temperature	Tstg	-40 ~ +85	°C

◆ ELECTRICAL and OPTICAL CHARACTERISTICS at Tc=25°C

Items	Symbols	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	Po	-	5	-	mW	-
Threshold Current	Ith	-	23	35	mA	-
Operating Current	Iop	-	32	45	mA	Po=5mW
Operating Voltage	Vop	-	2.2	2.7	V	Po=5mW
Lasing Wavelength	λp	630	637	640	nm	Po=5mW
Beam Divergence	θ	6	8	12	deg	Po=5mW
	θ⊥	28	34	40	deg	Po=5mW
Beam Angle	Δθ	-	-	±2.0	deg	Po=5mW
	Δθ⊥	-	-	±3.0	deg	Po=5mW
Monitor Current	I _m	0.05	0.15	0.4	mA	Po=5mW
Optical Distance	ΔX, ΔY, ΔZ	-	-	±50	μm	-