BLUE-VIOLET LASER DIODE

SDL-405-200-511E

Features

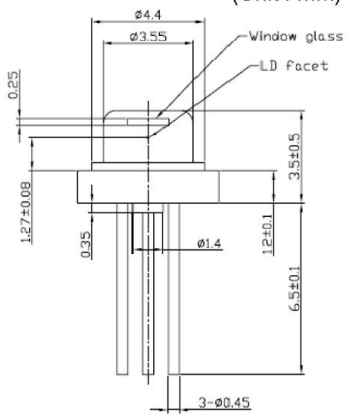
Wavelength: 405nm (Typ.)
Threshold current: Ith = 60mA (Typ.)
Optical Power: Po = 200mW (Typ.)
Package: ø5.6mm

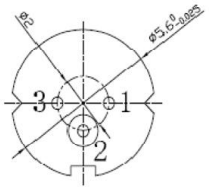
Applications

Industrial use

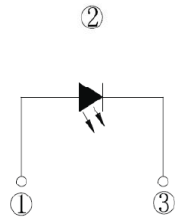
Package

Tolerance : ± 0.2
(Unit : mm)





Pin Connection



Absolute Maximum Ratings

(Tc=25°C)

Items	Symbols	Values	Unit
Optical Output Power	Po	200	mW
Laser Diode Reverse Voltage	V	5	V
Photo Diode Reverse Voltage	V	-	V
Operating Temperature	Topr	-10~+70	℃
Storage Temperature	Tstg	-40~+80	℃

1) Case Temperature

Electrical and Optical Characteristics

(Tc=25°C)

Items	Symbols	Min	Type	Max.	Unit	Condition
Optical Output Power	Po	-	200	-	mW	CW
Threshold Current	Ith	-	60	80	mA	CW
Operating Current	Iop	-	200	220	mA	Po=200mW
Slope Efficiency	η	-	1.3	1.6	mW/mA	Po=200mW
Operating Voltage	Vop	-	4.7	5.5	V	Po=200mW
Monitor Current	Im	-	-	-	mA	Po=200mW
Lasing Wavelength	λ	400	406	415	nm	Po=200mW
Beam Divergence	//	6	10	14	°	Po=200mW
	⊥	16	20	24	°	Po=200mW
Beam Angle	△//	-	-	±3	°	Po=200mW
	△⊥	-	-	±3	°	Po=200mW

* Angle at 50% peak intensity (full-width at malf-maximum)

Note: The above specification is subject to change without notice

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