

BLUE-VIOLET LASER MODULE



SEMICOM
VISUAL

SML-405-4.5-1-R

Features

Wavelength: 405nm (Typ.)
Output power: $P_o = 4.5\text{mW}$ (Typ.)
Package: $\varnothing 10\text{mm}$ (RoHS compliant)

Applications

Laser pointer
Laser marker

Absolute Maximum Ratings

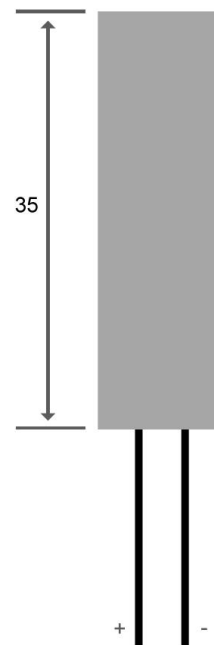
($T_c=25^\circ\text{C}$)

Parameter	Symbol	Ratings	Unit
Light Output CW	P_o (CW)	4.5	mW
Operating Voltage	Vcc	+6	V
Operating Temperature ¹⁾	Topr	-10 to +50	$^\circ\text{C}$
Storage Temperature	Tstg	-40 to +80	$^\circ\text{C}$

1) Case Temperature

Package

(Unit : mm)



Electrical and Optical Characteristics

($T_c=25^\circ\text{C}$)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Operating Current	Iop	CW			70	mA
Supply Voltage	Vcc			+6		V
Beam Diameter ^(*2)	2wr	$\Delta l = 10\text{m}$ ^(*3)			6x12	mm
	2wr	$\Delta l = 20\text{m}$ ^(*3)			12x25	mm
Beam Divergence ^(*2)	2 θ r				0.2	mrad
Lasing Wavelength	λ_p	$\Delta l = 5\text{m}$ ^(*3)	400	405	410	nm

(*2) X axial direction (*3) Measurement distance from laser aperture

CDRH Class: Class IIIa,
Case material: Brass
MTTF: 10,000 hours

Note: The above specification is subject to change without notice

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