

# INFRA-RED LASER MODULE



**SEMICOM**  
V I S U A L

## SML-980-1-1-R

### Features

Wavelength: 980nm (Typ.)  
Output power:  $P_o = 1\text{mW}$  (Typ.)  
Package:  $\varnothing 10\text{mm}$  (RoHS compliant)

### Applications

Industrial applications

### Absolute Maximum Ratings

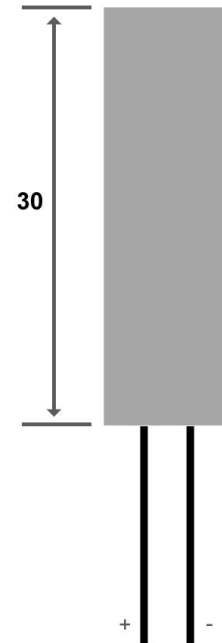
( $T_c=25^\circ\text{C}$ )

Parameter	Symbol	Ratings	Unit
Light Output CW	$P_o$ (CW)	1	mW
Operating Voltage	VCC	+5	V
Operating Temperature <sup>1)</sup>	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	lop	CW			50	mA
Supply Voltage	Vcc			+5		V
Beam Diameter <sup>(*)2)</sup>	2wr	$\Delta l = 10\text{m}$ <sup>(*)3)</sup>			5	mm
		$\Delta l = 30\text{m}$ <sup>(*)3)</sup>			12	mm
Beam Divergence <sup>(*)2)</sup>	2 $\theta$ r			0.1		mrad
Lasing Wavelength	$\lambda_p$	$\Delta l = 5\text{m}$ <sup>(*)3)</sup>		980		nm

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

Case Material: Brass  
CDRH Class: II

Note: The above specification is subject to change without notice

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