

# RED LASER MODULE

## SML-635-1-1-R



**SEMICOM**  
V I S U A L

### Features

**Wavelength: 635nm (Typ.)**  
**Output power:  $P_o = 1\text{mW}$  (Typ.)**  
**Package:  $\varnothing 8\text{mm}$  (RoHS compliant)**

### Applications

**Industrial applications**

### Absolute Maximum Ratings

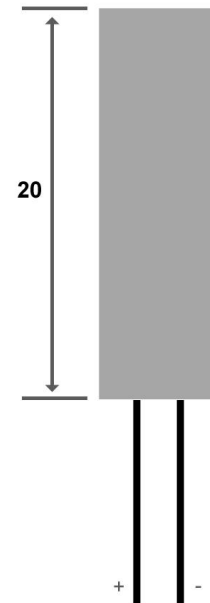
( $T_c=25^\circ\text{C}$ )

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			40	mA
Supply Voltage	Vcc			+5		V
Beam Diameter <sup>(*)</sup>	2wr	$\Delta l = 10\text{m}$ <sup>(*)</sup>			6x12	mm
		$\Delta l = 20\text{m}$ <sup>(*)</sup>			12x25	mm
Beam Divergence <sup>(*)</sup>	2 $\theta_r$				0.5	mrad
Lasing Wavelength	$\lambda_p$	$\Delta l = 5\text{m}$ <sup>(*)</sup>	630	635	640	nm

(\*) X axial direction (\*) 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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