

# RED LASER MODULE

## SML-635-1-5-M



**SEMICOM**  
VISUAL

### Features

Wavelength: 635nm (Typ.)  
Output power:  $P_o = 1\text{mW}$  (Typ.)  
Package:  $\varnothing 11\text{mm}$  (RoHS compliant)  
Connector: Molex type (22-01-2025)

### Applications

Barcode reader  
Laser marker

### Absolute Maximum Ratings

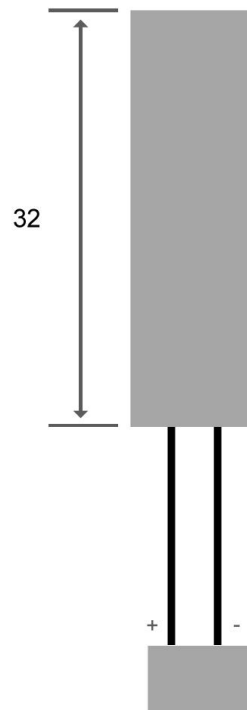
( $T_c=25^\circ\text{C}$ )

Parameter	Symbol	Ratings	Unit
Light Output CW	$P_o$ (CW)	1	mW
Operating Voltage	VCC	+3	V
Operating Temperature <sup>1)</sup>	Topr	+10 to +40	$^\circ\text{C}$
Storage Temperature	Tstg	-40 to +85	$^\circ\text{C}$

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			45	mA
Supply Voltage	Vcc			+3		V
MTTF				8,000		hrs
Beam Divergence <sup>(*)2)</sup>	$2\theta_r$				0.5	mrad
Beam Size		$\Delta l = 10\text{m}$ <sup>(*)3)</sup>			-	mm
Lasing Wavelength	$\lambda_p$	$\Delta l = 5\text{m}$ <sup>(*)3)</sup>	630	635	640	nm

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

Note: The above specification is subject to change without notice

**Semicom Visual Ltd.**

Kao Hockham Building, Edinburgh Way, Harlow, Essex, CM20 2NQ, UK. TEL: +44 (0)1279 422224 FAX: +44 (0)1279 433339