

RayCan *850 nm Vertical-Cavity Surface-Emitting Laser*

RC1xxx1-S

Description

The RayCan 850 nm VCSEL is designed for high-speed, high-performance communication applications.

Features

- Low dependence of electrical and optical characteristics over temperature
- Data rates from OC-3 to OC-48

Applications

- Access network for long distance
- Local area network
- Gigabit Ethernet

Electrical and optical characteristics (T = 20°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Threshold current	I_{th}		1	3	mA	
Forward voltage	V_f		3		V	
Series resistance	R_s		300	500	Ω	
Output power	P_o	0.7	~ 1.0		mW	
Side mode suppression	SMSR	25	30		dB	
Operating temperature	T_{op}		0 ~ 70		°C	

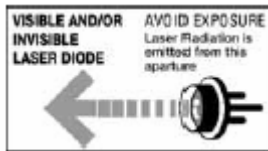
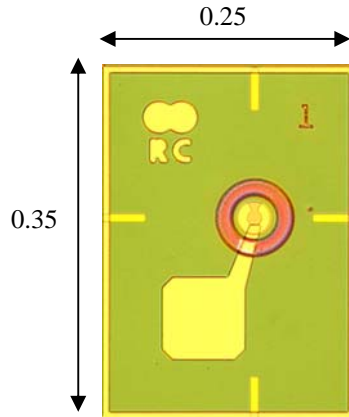
Absolute maximum ratings

Parameter	Symbol	Rating	Unit	Notes
Forward current	I_f	8	mA	
Reverse voltage	V_r	5	V	
Operating temperature	T_{op}	70	°C	
Storage Temperature	T_{stg}	0 ~ 100	°C	
Reflow Temperature	T_{ref}	260	°C	10 sec. max

VCSEL chip

Dimensions unit : mm

Chip : top side view



Warning

Laser beams emitted from this product are hazardous to the naked eye. Avoid eye or skin exposure to direct or scattered radiation.

Caution

This product is sensitive to the electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product.

RayCan

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