PM98-F1P0N

1.25/2.5Gbps 980nm VCSEL TO-46 Can Package

Features

: 980nm wavelength range

: High data rate 1.25 / 2.5Gbps

: High reliability

: Low current and voltage

: Flat window Type TO-46 Can package

: Other configurations available on request

Applications

: High speed Data Communications

: Fiber Channel

Description

Absolute Maximum Ratings

Parameter	Rating
Storage Temperature	-40 to 100 °C
Operating Temperature	0 to 85 °C
Lead Solder Temperature	260 °C, 10 sec
Continuous Forward Current	12mA
Continuous Reverse Voltage	5V (@10μA)

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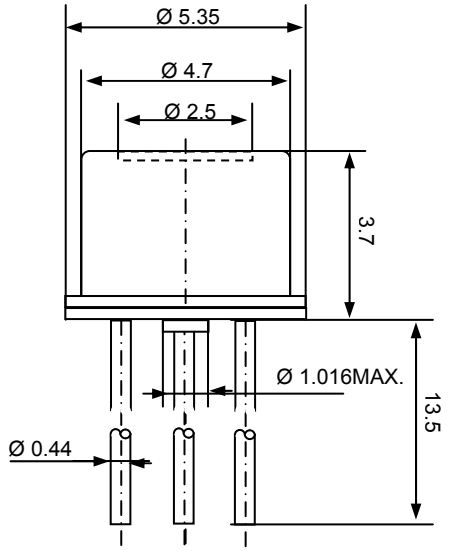
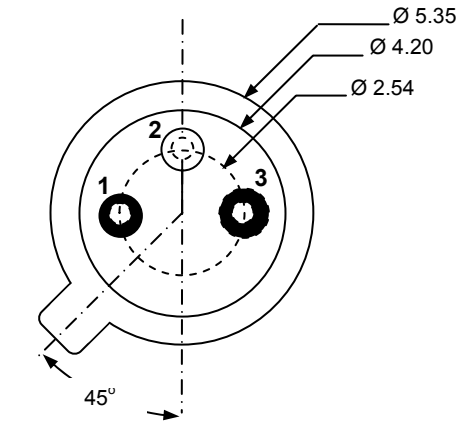
Dimensions



Unit:mm



Bottom view

PINOUT

Number	Function
1	A_{LD}
2	NC
3	K_{LD}

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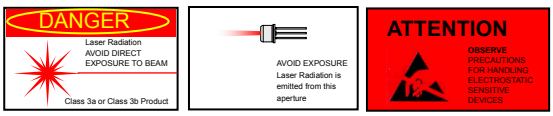
Electro-Optics Characteristics (T_a=25°C unless otherwise stated)

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Threshold Current	I_{th}		1.5		mA	CW
I_{th} Temperature Variation	ΔI_{th}		1.5		mA	T_a =0 to 85 °C
Slope Efficiency	η	0.2	0.3	0.5	W/A	I_f = 6 mA
η Temperature Coefficient	Δη / ΔT		-0.5		%/ °C	T_a=0 to 85 °C at 6 mA
Optical Output Power	P_o		1.5		mW	I_f = 6 mA
Peak Wavelength	λ_P	970	980	990	nm	I_f = 6mA
λ_P Temperature Coefficient	Δ λ / ΔT		0.06			T_a =0 to 85 °C at 6mA
Spectral Bandwidth (RMS)	Δ λ			0.85	nm	I_f = 6mA
Beam Divergence	Θ	14		30	°	P_0=1.5mW,Full Width, $1/e^2$
Forward Voltage	V_f		1.6	2.0	V	I_f = 6mA
Breakdown Voltage	V_b		-10		V	
Dynamic Resistance	R_d	25	35	55	Ohm	I_f = 6mA

Notes

* These specifications are subject to change without notice



NOTICE	The inherent design of this component causes it to be sensitive to electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product
DANGER	The VCSEL is a class IIIb laser and should be treated as a potential eye hazard. Due to the size of the component, the applicable warning logotype, aperture label, and certification / identification label cannot be placed on the component itself.

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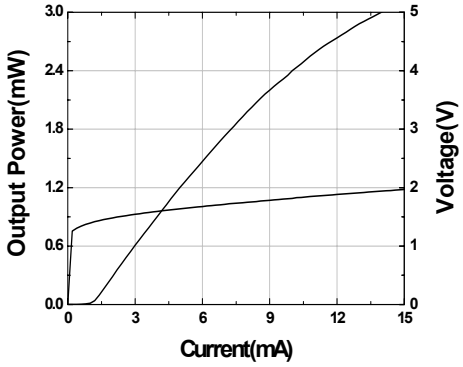
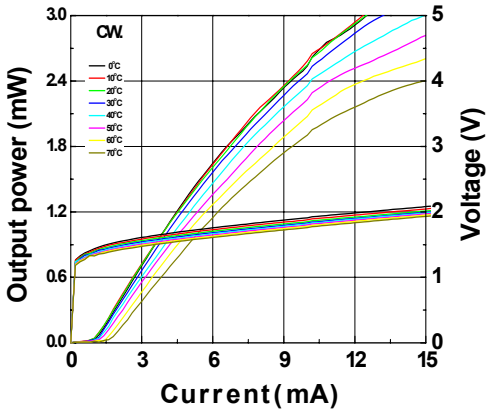
Characteristics Curves

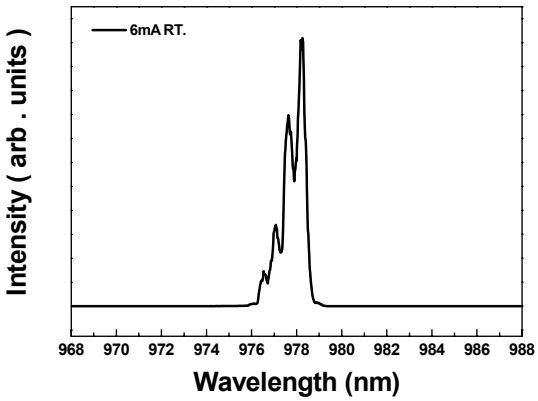
LIV Curve



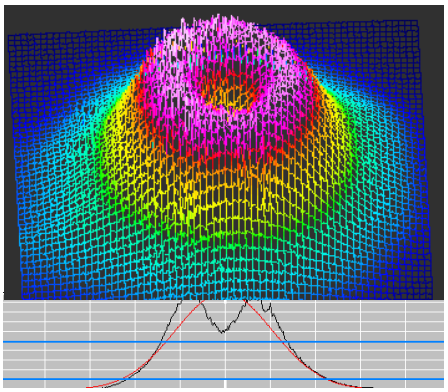
LIV vs Temperature



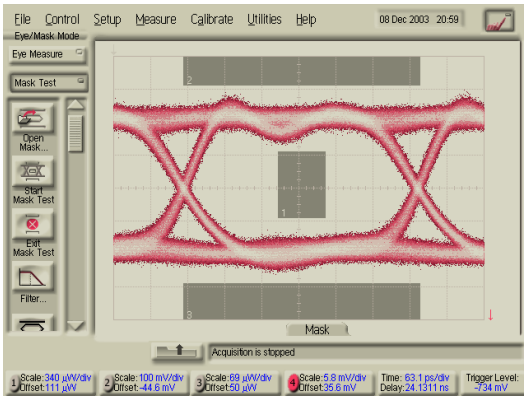
EL Spectrum



FFP



Eye Diagram



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