

GS85-FCP0N

2.5Gbps 850nm Single mode VCSEL Pigtail

Features

- : Single-mode 850nm VCSEL
- : 2.5 Gbps data rates
- : Low current and voltage
- : SC/FC fiber connectorized
- : Other configurations available on request

Applications

- : High speed Data Communications
- : Gigabit Ethernet
- : Fiber Channel

Description



Absolute Maximum Ratings

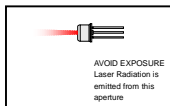
Parameter	Rating
Storage Temperature	-40 to 100 °C
Operating Temperature	0 to 70 °C
Lead Solder Temperature	260 °C, 10 sec
Continuous Forward Current	8mA
Continuous Reverse Voltage	5V (@10μA)

Electro-Optics Characteristics ($T_a=25^{\circ}\text{C}$ unless otherwise stated)

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Threshold Current	I_{th}		2	4	mA	CW
I_{th} Temperature Variation	ΔI_{th}		1		mA	$T_a = 0$ to 70°C at 5 mA
Slope Efficiency	η		0.1	0.2	W/A	$I_f = 5$ mA
η Temperature Coefficient	$\Delta\eta / \Delta T$		-0.5		%/ $^{\circ}\text{C}$	$T_a = 0$ to 70°C at 5 mA
Fiber Optical Output Power	P_o		0.3		mW	$I_f = 5$ mA
Peak Wavelength	λ_P	840	850	860	nm	$I_f = 5$ mA
λ_P Temperature Coefficient	$\Delta\lambda / \Delta T$		0.06			$T_a = 0$ to 70°C at 5 mA
Forward Voltage	V_f		1.8	2.2	V	$I_f = 5$ mA
Breakdown Voltage	V_b		-10		V	
Dynamic Resistance	R_d		50		Ohm	$I_f = 5$ mA
Side mode suppression Ratio	SMSR		20		dB	$I_f = 5$ mA

Notes

* These specifications are subject to change without notice



NOTICE

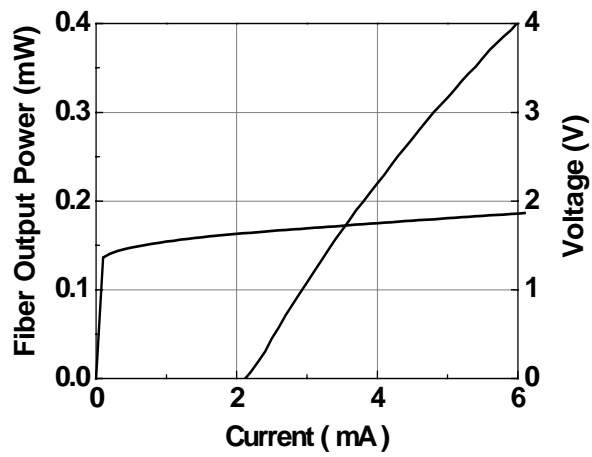
The inherent design of this component causes it to be sensitive to electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product

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.

Characteristics Curves

LIV Curve



EL Spectrum

