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FPL-1050-9MM

Single mode Fabry-Perot laser diode module designed for optical measurement and communication.

Optical and electrical characteristics:

Parameter	Symbol	Test condition	Min.	Typ.	Max.	Unit
Optical Power	P_f	CW	100			mW
Pulsed Optical Power	P_{fp}	Pulse, τ=10μs, D=1%		300		mW
Treshold Current	I_{th}		20		50	мА
Forward Current	I_f	P_f		200	250	mA
Pulsed Forward Current	I_{fp}	P_{fp}, τ=10μs, D=1%		300		mA
Forward Voltage	V_f	P_f			2.5	V
Center Wavelength	λ_c	P_f	1045	1050	1060	nm
Spectral Width	$\Delta\lambda_c$	P_f		1	3	nm
Monitor Current	I_m	P_f	20		500	μA
PD Dark Current	I_d	V_{rd}=5V			0.1	μA

Absolute maximum ratings:

Parameter	Symbol	Rating	Unit
Forward Current	I_f	300	mA
Reverse Voltage	V_r	1.8	V
PD Reverse Voltage	V_{rd}	7	V
Minimum Operation Case Temperature	T_{ol}	-40	°C
Maximum Operation Case Temperature	T_{oh}	70	°C
Minimum Storage Temperature	T_{sl}	-40	°C
Maximum Storage Temperature	T_{sh}	70	°C

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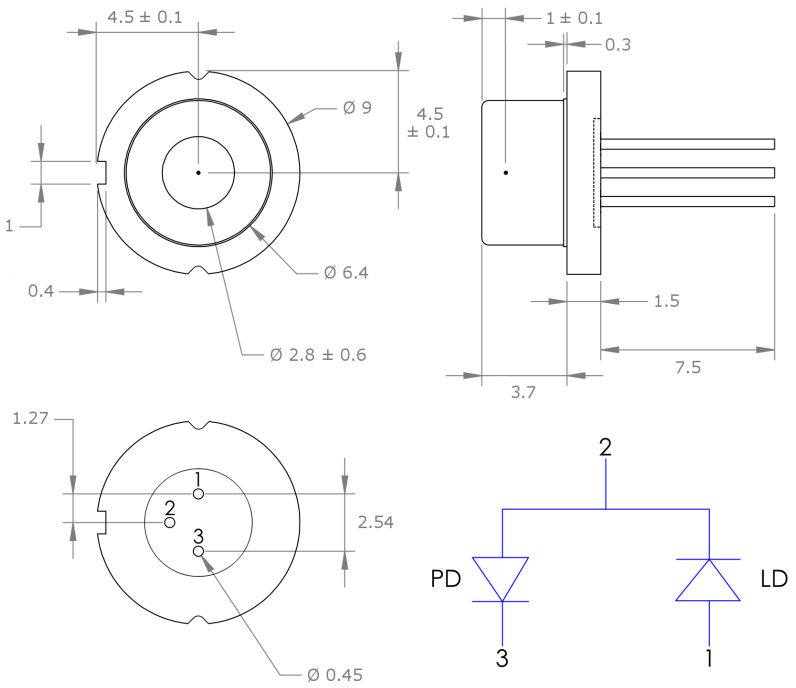
Packaging:

9mmTO:	
№	Parameter
1	LD anode +
2	LD -, PD -, case
3	PD cathode +