

Laser Diode FVLD-473-1000M



FVLD-473-1000M is a multimode laser diode with 1000mW CW output power at 473nm. It is supplied in a 9mm TO can with Zener Diode. The laser diode is suitable for the use in various opto-electronic applications.

Absolute Maximum Ratings:

Operating Parameters	Symbol	Rating	Unit
Optical Output Power	P_{out}	1200	mW
Reverse Current	$I_{r(LD)}$	85	mA
Storage Temperature	T_{stg}	-40 to +85	°C
Operating Temperature (Case)	T_c	+20 to +40	°C

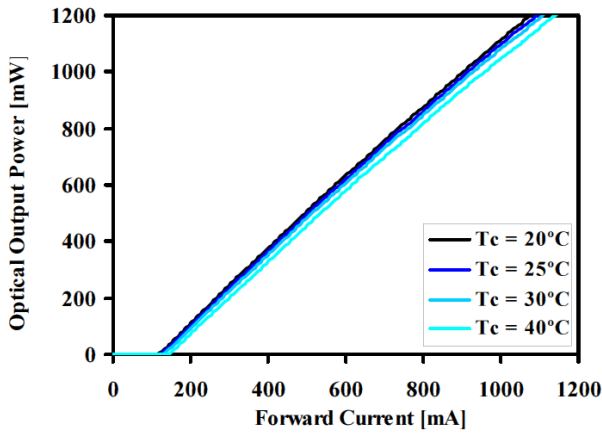
Optical and Electrical Characteristics:

Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Output Power	P_{out}	-	-	1000	mW
Wavelength	λ	468	-	478	nm
Threshold Current	I_{th}	60	120	200	mA
Forward Current	I_f	700	900	1200	mA
Forward Voltage	V_f	3.6	4.0	6.0	V
Slope Efficiency	η	0.9	1.2	1.8	W/A
Beam Divergence Parallel*	$\Theta_{ }$	7	12	18	deg.
Beam Divergence Perpendicular*	Θ_{\perp}	40	48	56	deg.
Beam Pointing Accuracy \perp	θ_{\perp}	-	-	± 5	deg.

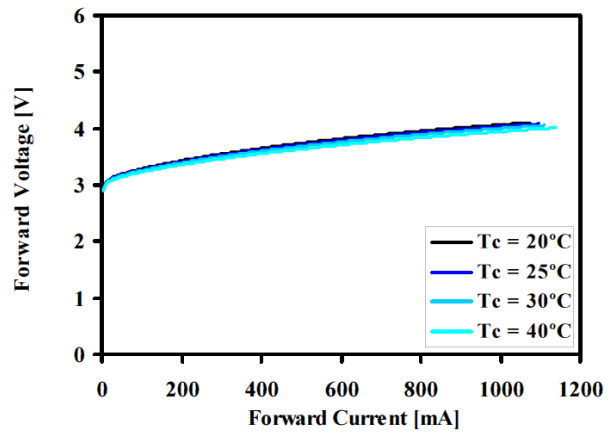
* Full Width 1/e²

TYPICAL CHARACTERISTICS

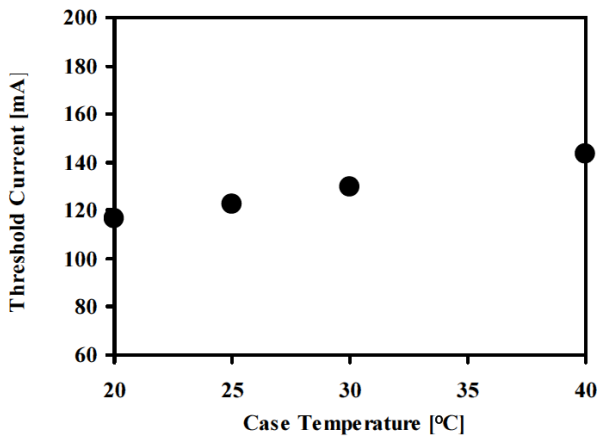
◆ Optical Output Power vs. Forward Current



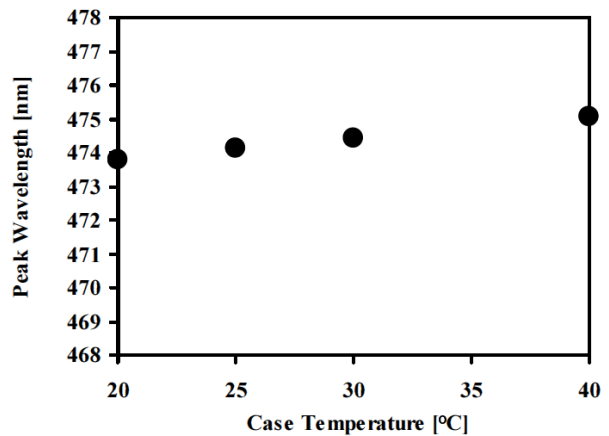
◆ Forward Voltage vs. Forward Current



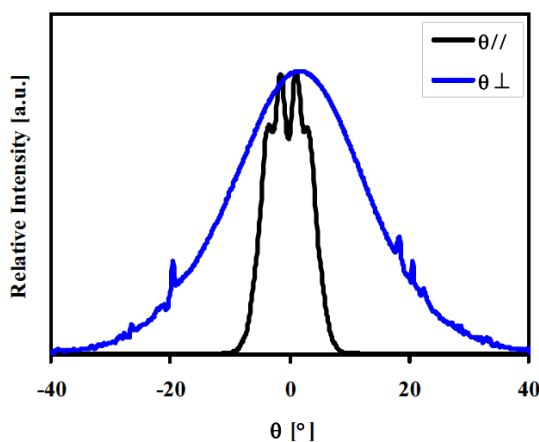
◆ Threshold Current vs. Case Temperature



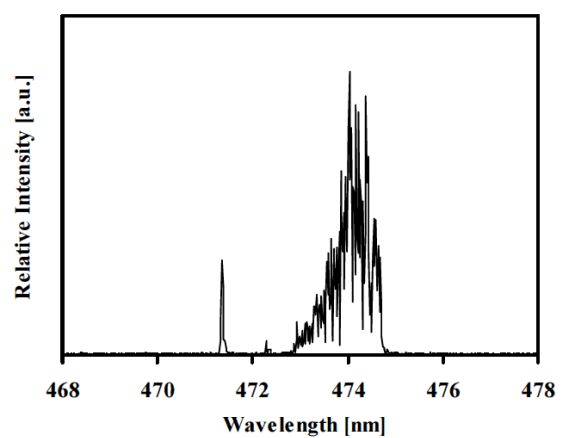
◆ Peak Wavelength vs. Case Temperature



◆ Far Field Pattern

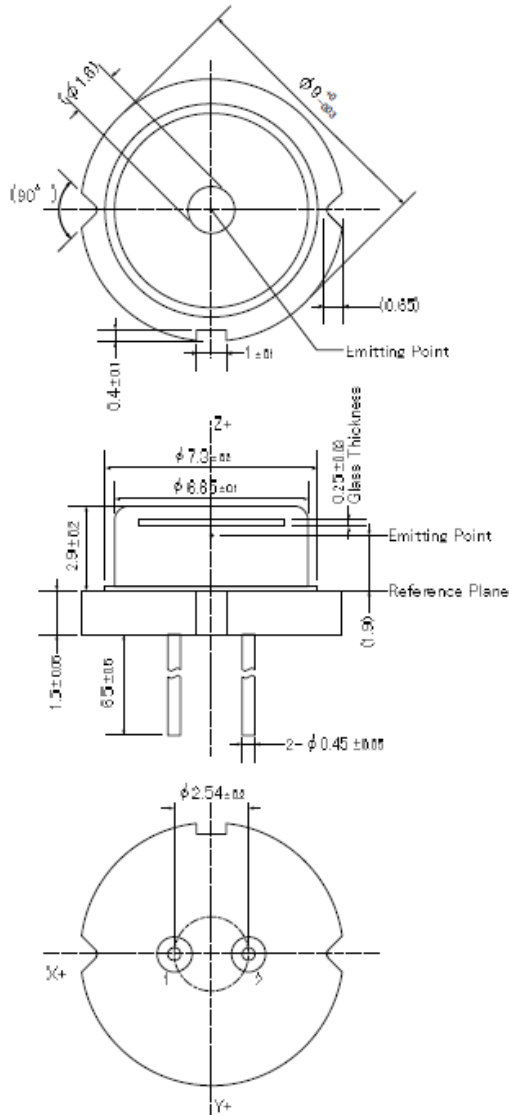


◆ Spectrum

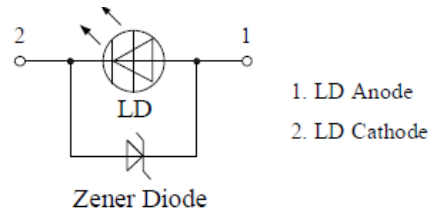


PACKAGING

Unit (mm)



Pin Connection



This model does not have Photo Diode. This model has a Zener Diode built in as a protection circuit against static electricity.

() are reference figures