

## Laser Diode FVLD-375-200M



**FVLD-375-200M** is a multimode laser diode with 200mW CW output power at 375nm. It is supplied in a 5.6mm TO can with Photo Diode and 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	$P_{out}$	200	mW
Reverse Current	$I_{r(LD)}$	85	mA
PD Reverse Voltage	$V_{r(PD)}$	5	V
Storage Temperature	$T_{stg}$	-40 to +85	°C
Operating Temperature (Case)	$T_c$	+20 to +30	°C

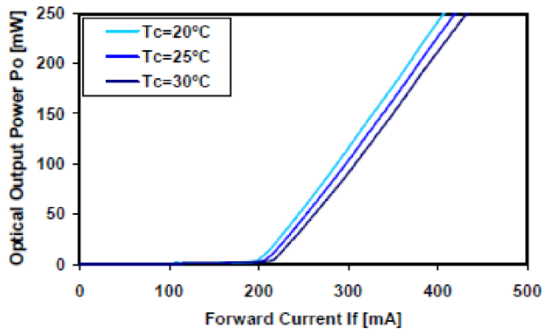
### Optical and Electrical Characteristics:

Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Output Power	$P_{out}$	-	-	200	mW
Wavelength	$\lambda$	370	375	380	nm
Threshold Current	$I_{th}$	100	200	250	mA
Forward Current	$I_f$	300	390	450	mA
Forward Voltage	$V_f$	4.0	4.4	5.0	V
Slope Efficiency	$\eta$	0.8	1.1	1.8	W/A
Beam Divergence Parallel*	$\Theta_{  }$	9	19	25	deg.
Beam Divergence Perpendicular*	$\Theta_{\perp}$	30	40	45	deg.
Beam Pointing Accuracy $\perp$	$\theta_{\perp}$	-	-	$\pm 5$	deg.
Monitor Current	$I_m$	0.2	-	2.0	mA

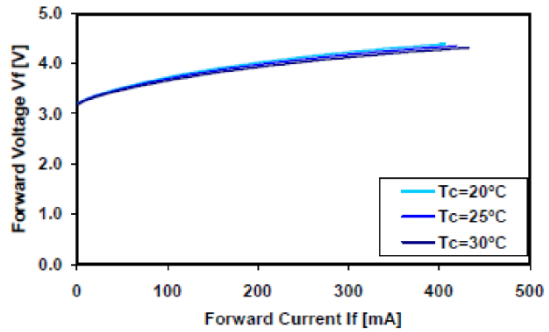
\* Full Width 1/e<sup>2</sup>

## TYPICAL CHARACTERISTICS

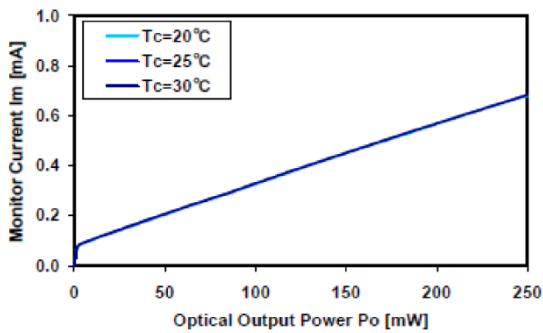
◆ Optical Output Power vs. Forward Current



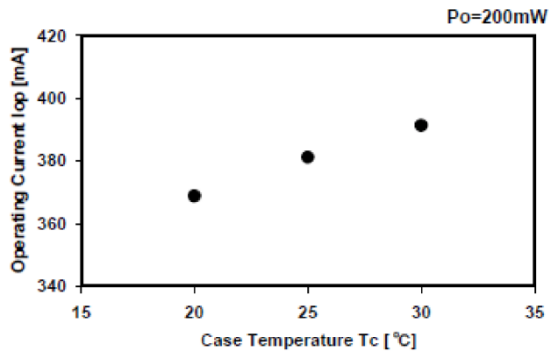
◆ Forward Voltage Vf [V] vs. Forward Current If [mA]



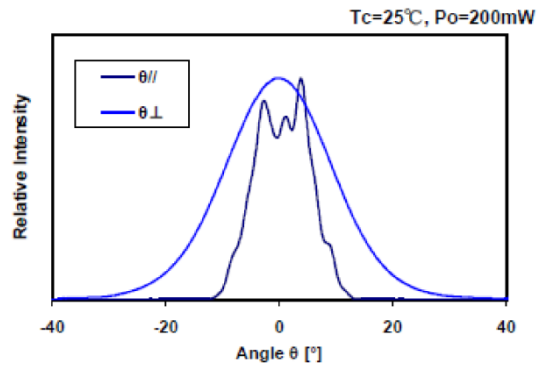
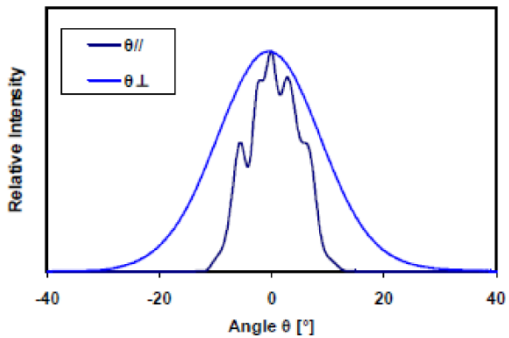
◆ Monitor Current Im [mA] vs. Optical Output Power Po [mW]



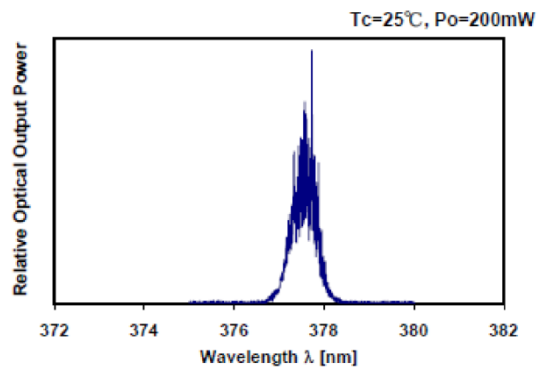
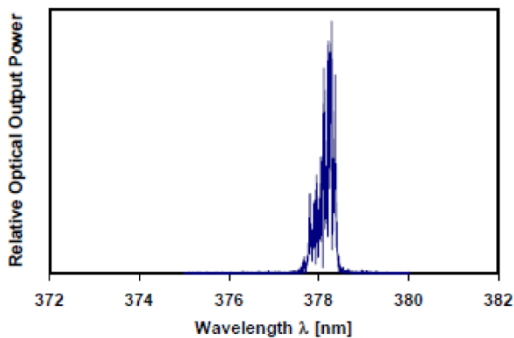
◆ Operating Current Iop [mA] vs. Case Temperature Tc [°C]



◆ Far Field Pattern

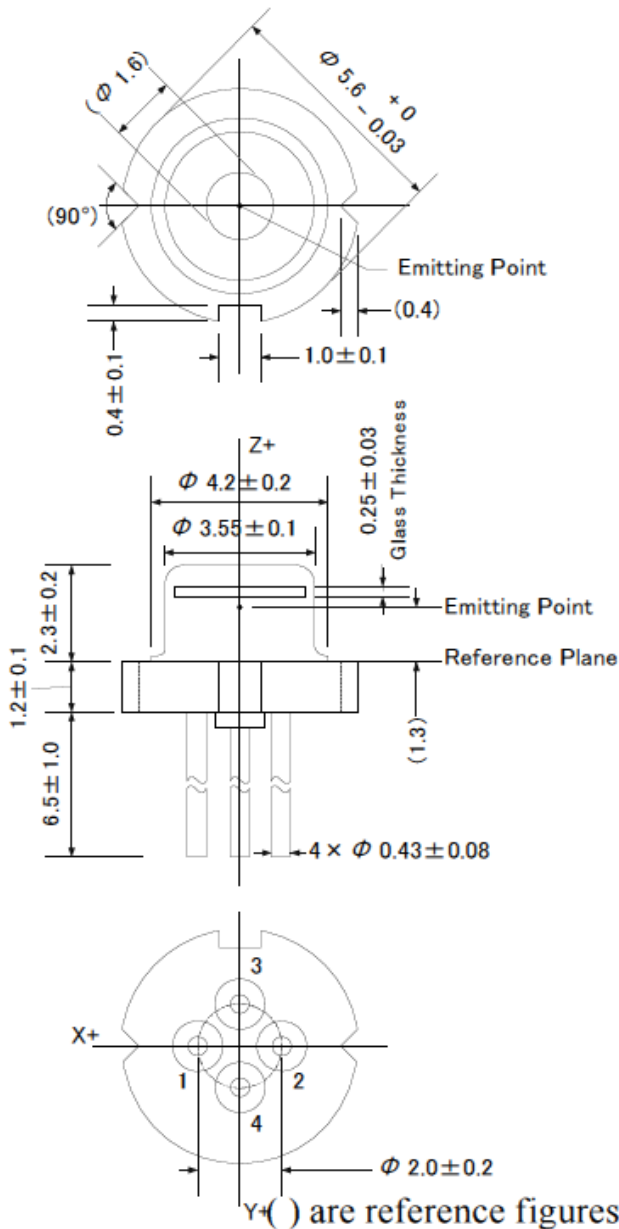


◆ Typical Spectrum

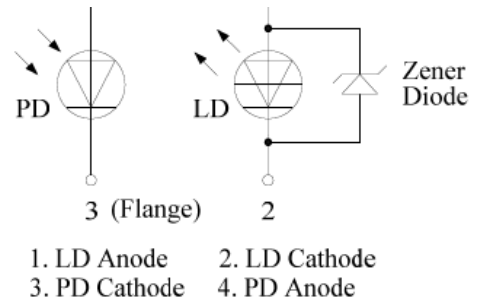


**PACKAGING**

Unit (mm)



Pin Connection



**This model has a Zener Diode built in as a protection circuit against static electricity.**