

## Laser Diode FVLD-375-70S



**FVLD-375-70S** is a single mode laser diode with 70mW 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:

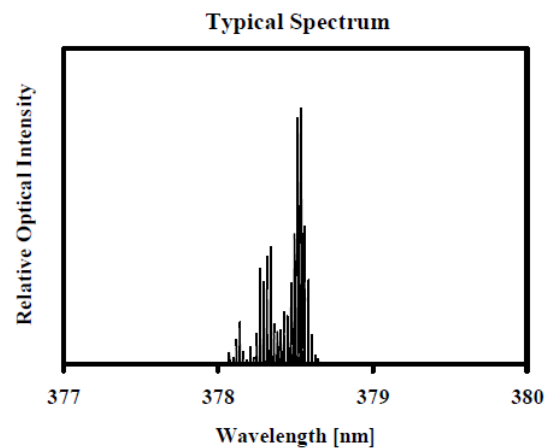
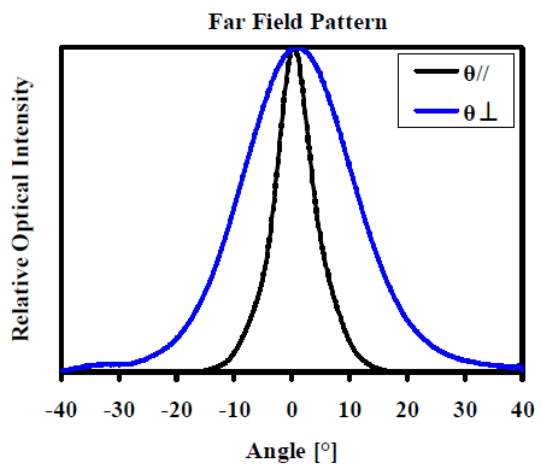
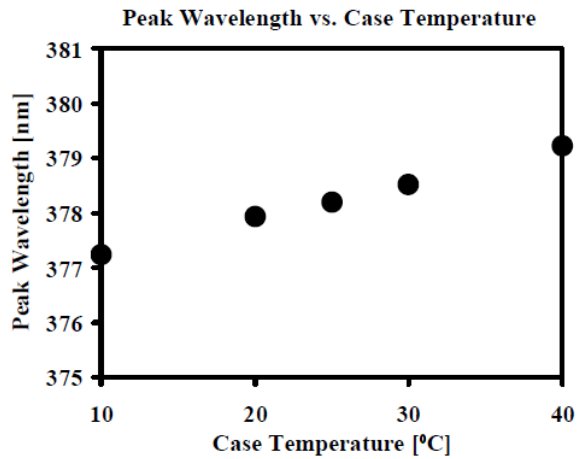
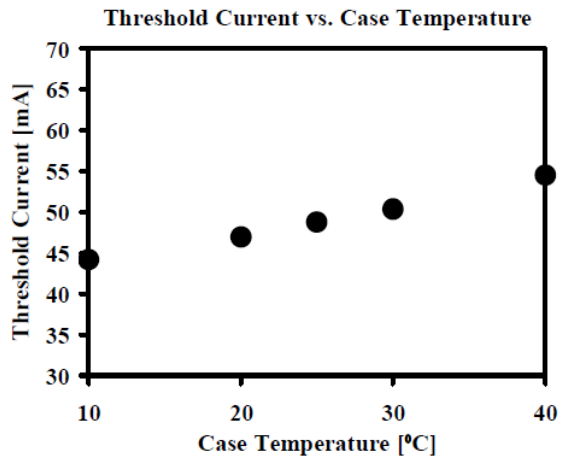
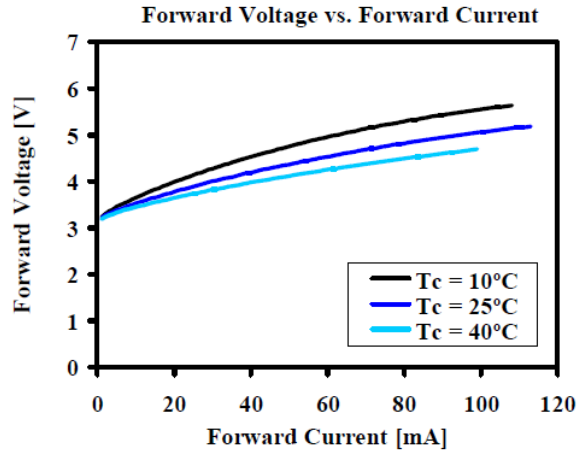
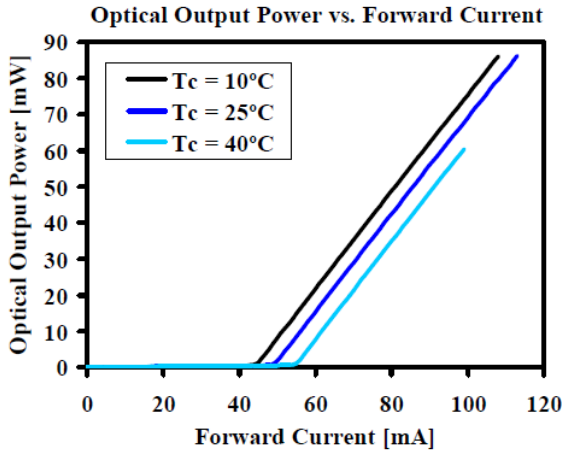
Operating Parameters	Symbol	Rating	Unit
Optical Output Power	$P_{out}$	85	mW
Reverse Current	$I_{r(LD)}$	85	mA
PD Reverse Voltage	$V_{r(PD)}$	5	V
Storage Temperature	$T_{stg}$	-40 to +85	°C
Operating Temperature (Case)	$T_c$	10 to +40	°C

### Optical and Electrical Characteristics:

Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Output Power	$P_{out}$	-	-	70	mW
Wavelength	$\lambda$	370	-	380	nm
Threshold Current	$I_{th}$	30	50	75	mA
Forward Current	$I_f$	80	110	140	mA
Forward Voltage	$V_f$	4.6	5.4	6.0	V
Slope Efficiency	$\eta$	0.9	1.2	1.6	W/A
Beam Divergence Parallel*	$\Theta_{  }$	6	9	11	deg.
Beam Divergence Perpendicular*	$\Theta_{\perp}$	19	22.5	26	deg.
Beam Pointing Accuracy $_{  }$	$\theta_{  }$	-	-	$\pm 3$	deg.
Beam Pointing Accuracy $_{\perp}$	$\theta_{\perp}$	-	-	$\pm 3$	deg.
Monitor Current	$I_m$	0.05	0.2	2.0	mA

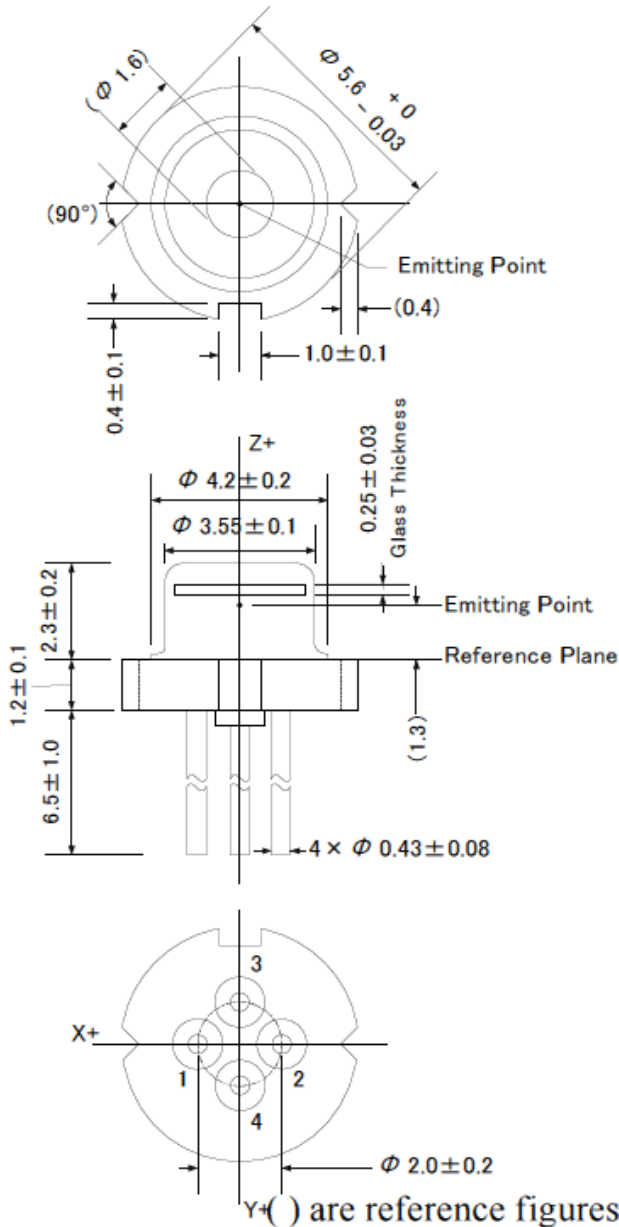
\* Full Width Half Maximum

**TYPICAL CHARACTERISTICS**

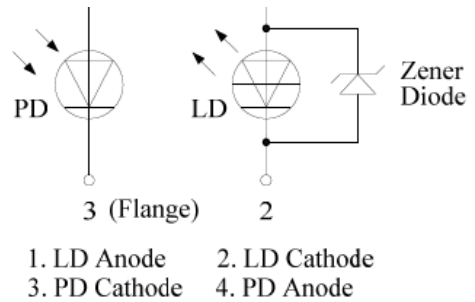


**PACKAGING**

Unit (mm)



Pin Connection



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