

## Laser Diode FVLD-505-80S



**FVLD-505-80S** is a single mode laser diode with 80mW CW output power at 505nm. 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:

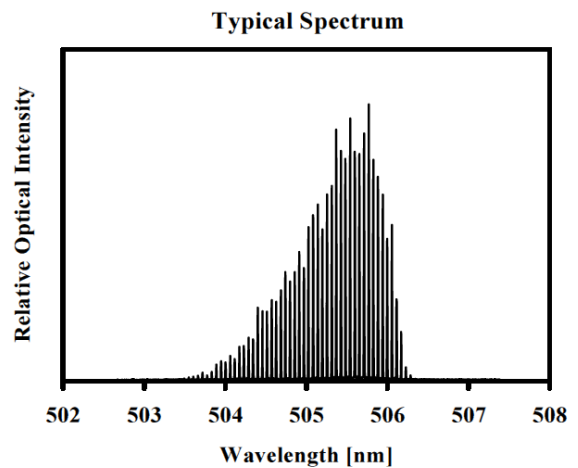
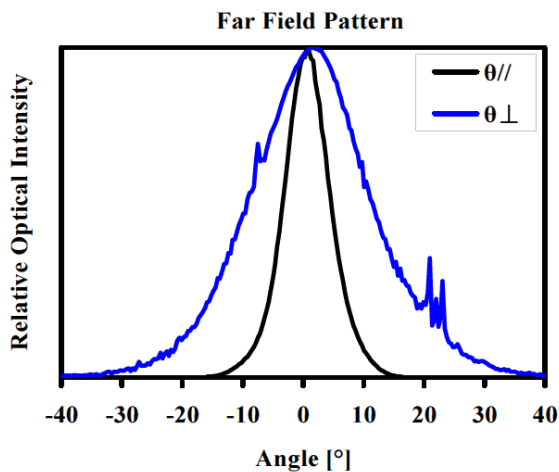
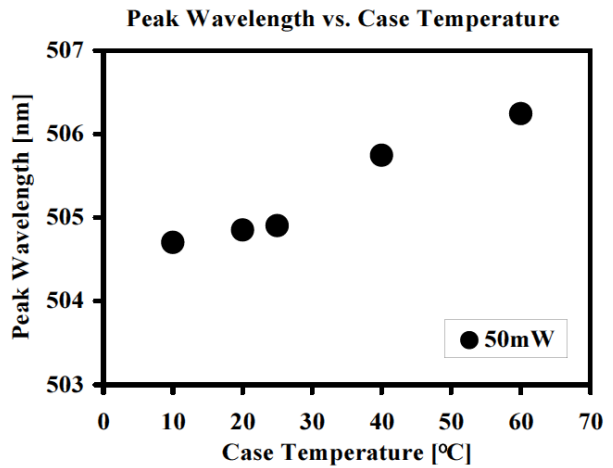
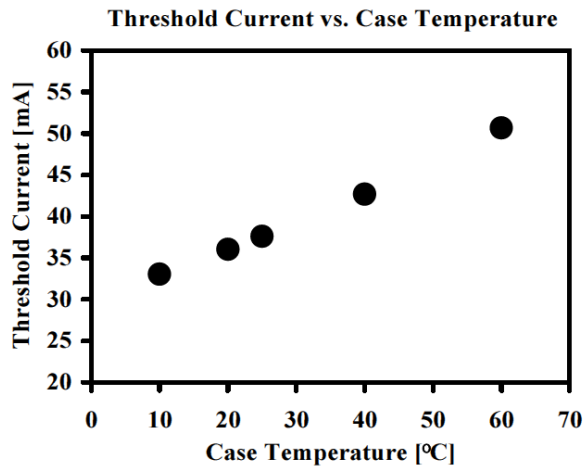
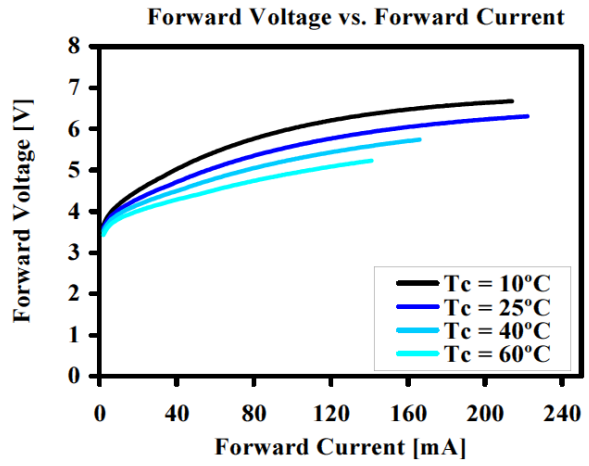
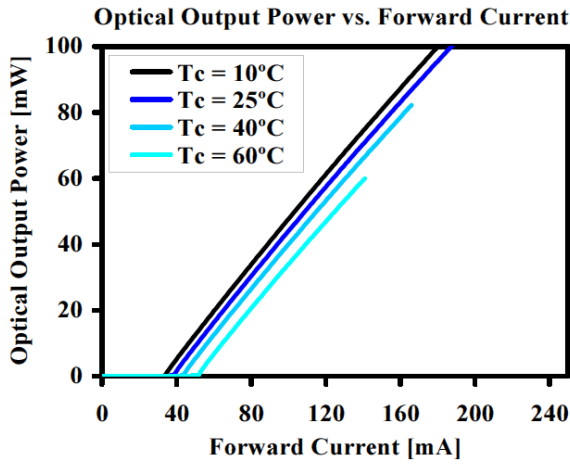
Operating Parameters	Symbol	Rating	Unit
Optical Output Power	$P_{out}$	100	mW
Reverse Current	$I_{r(LD)}$	85	mA
PD Reverse Voltage	$V_{r(PD)}$	5	V
Storage Temperature	$T_{stg}$	-40 to +85	°C
Operating Temperature (Case)	$T_c$	+10 to +60	°C

### Optical and Electrical Characteristics:

Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Output Power	$P_{out}$	-	-	80	mW
Wavelength	$\lambda$	503	505	507	nm
Threshold Current	$I_{th}$	-	40	80	mA
Forward Current	$I_f$	-	160	250	mA
Forward Voltage	$V_f$	-	6.5	7.5	V
Slope Efficiency	$\eta$	0.4	0.6	-	W/A
Beam Divergence Parallel*	$\Theta_{  }$	6	8	12	deg.
Beam Divergence Perpendicular*	$\Theta_{\perp}$	18	21	25	deg.
Beam Pointing Accuracy $_{  }$	$\theta_{  }$	-	-	±2.5	deg.
Beam Pointing Accuracy $_{\perp}$	$\theta_{\perp}$	-	-	±3.0	deg.
Monitor Current	$I_m$	0.2	1.0	2.5	mA

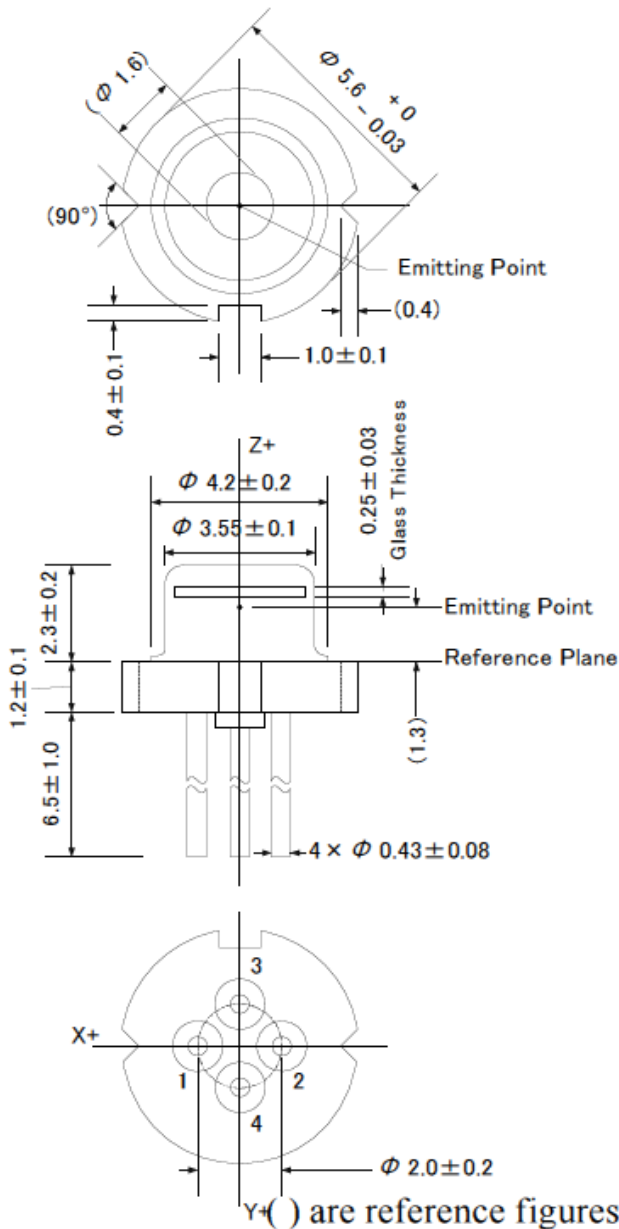
\* Full Width Half Maximum

**TYPICAL CHARACTERISTICS**

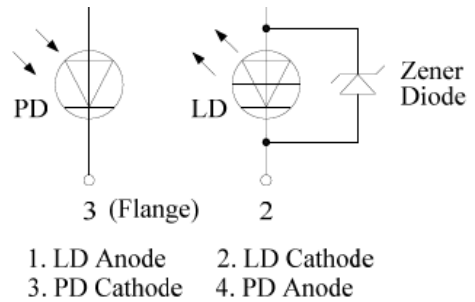


**PACKAGING**

Unit (mm)



Pin Connection



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