

Laser Diode FVLD-515-80S



FVLD-515-80S is a single mode laser diode with 80mW CW output power at 515nm. 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:

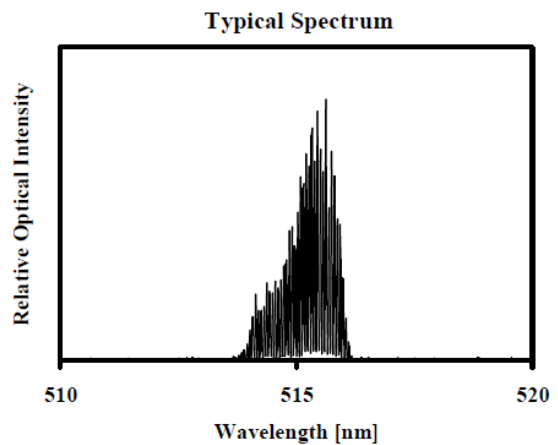
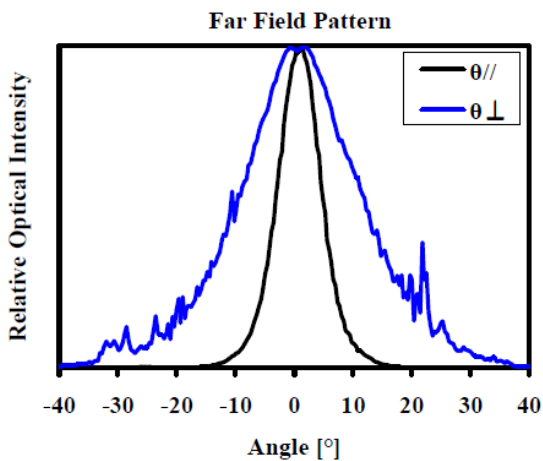
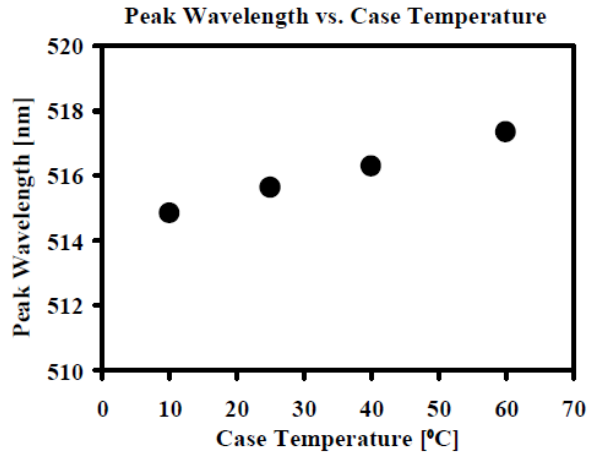
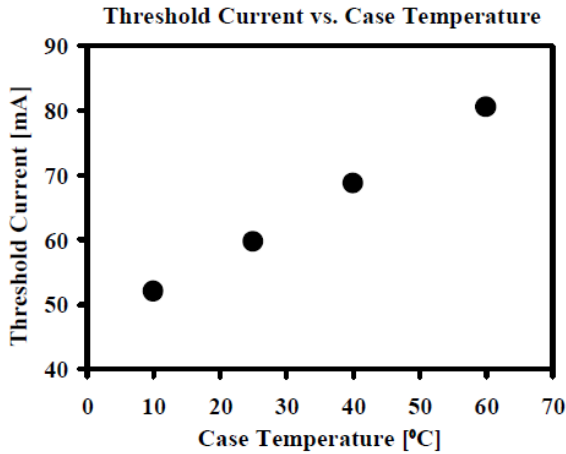
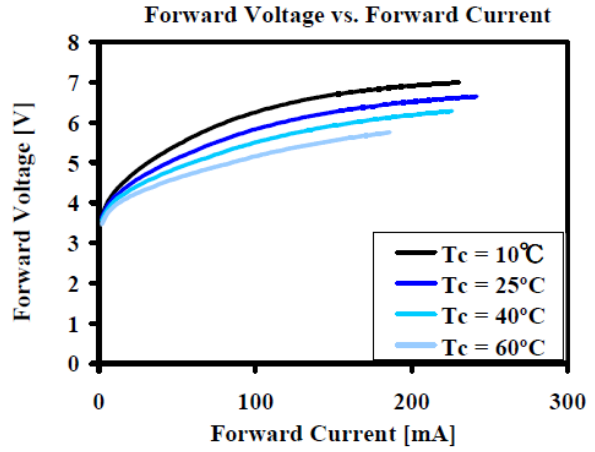
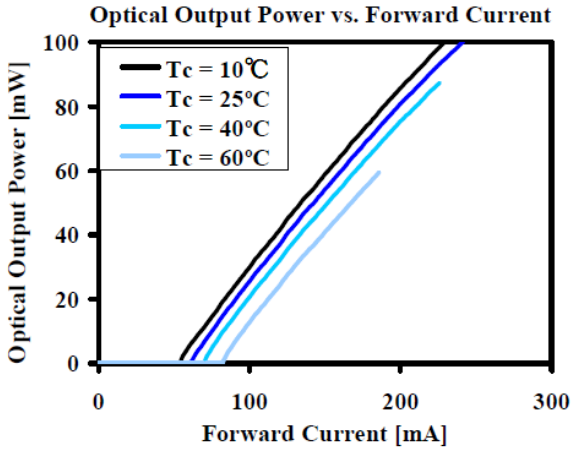
Operating Parameters	Symbol	Rating	Unit
Optical Output Power	P_{out}	100	mW
Reverse Current	$I_{r(LD)}$	85	mA
PD Reverse Voltage	$V_{r(PD)}$	5	V
Storage Temperature	T_{stg}	-40 to +85	°C
Operating Temperature (Case)	T_c	+10 to +60	°C

Optical and Electrical Characteristics:

Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Output Power	P_{out}	-	-	80	mW
Wavelength	λ	510	515	520	nm
Threshold Current	I_{th}	-	60	100	mA
Forward Current	I_f	-	200	300	mA
Forward Voltage	V_f	-	6.5	7.5	V
Slope Efficiency	η	0.4	0.5	-	W/A
Beam Divergence Parallel*	$\Theta_{ }$	6	8.5	12	deg.
Beam Divergence Perpendicular*	Θ_{\perp}	18	21.5	25	deg.
Beam Pointing Accuracy $_{ }$	$\theta_{ }$	-	-	±2.5	deg.
Beam Pointing Accuracy $_{\perp}$	θ_{\perp}	-	-	±3.0	deg.
Monitor Current	I_m	0.5	1.2	2.5	mA

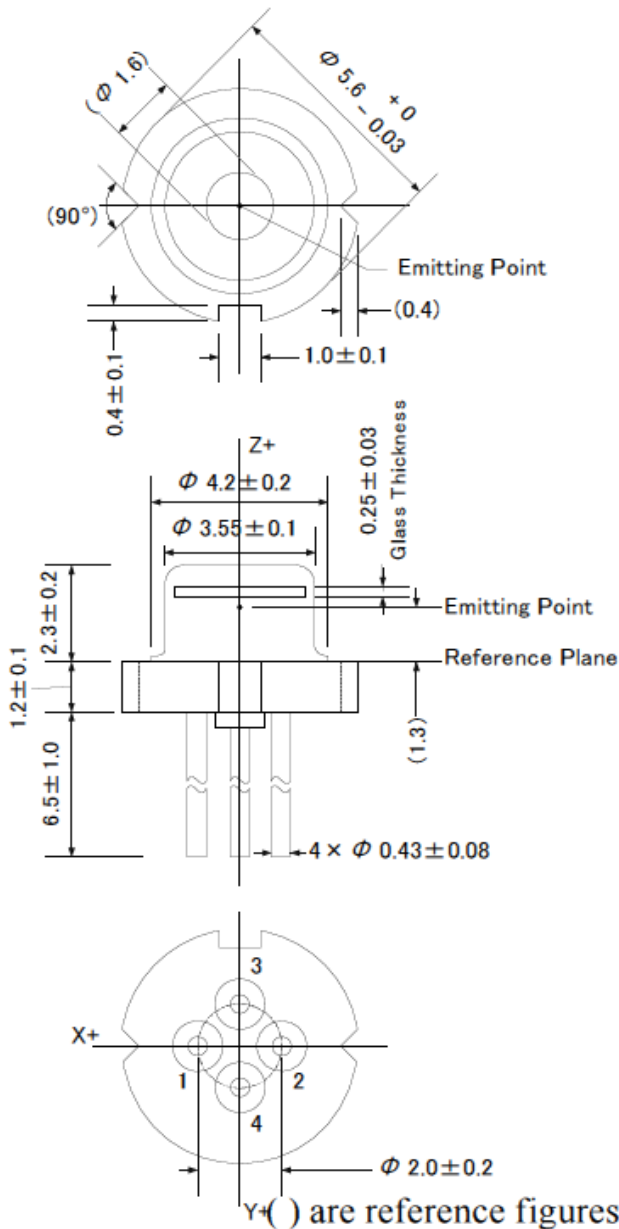
* Full Width Half Maximum

TYPICAL CHARACTERISTICS

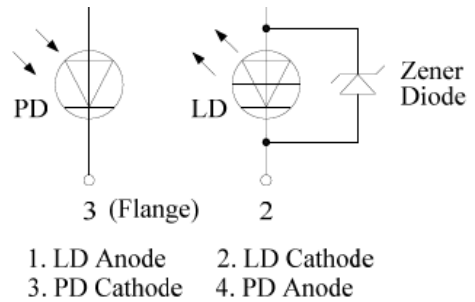


PACKAGING

Unit (mm)



Pin Connection



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