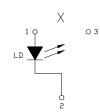
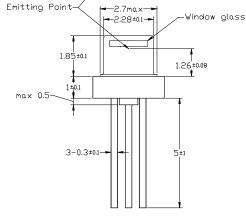
AIGaAs Infrared Laser Diode ADL-78901SX

3.3mm Mini Package!

200mW High Power Reliable Operation

- Features
 - 1. Smallest package
 - 2. Low operating current
 - 3. Small aspect ratio
 - 4. High COD level
- Applications
 - 1. Virtual keyboard
 - 2. Super slim 40X CD-R/RW OPU



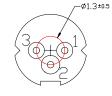


-0.25±0.1

Ø3.30003

Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	Po	CW 100		\A/
	Pop	Pulsed* 220		mW
Reverse voltage(LD)	V _{RL}	-	2	V
Case temperature	T _C	-	-10~+70	°C
Storage temperature	T _S	-	-40~+85	°C



•Electrical and optical characteristics (T_c=25 °C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions (CW)	
Peak wavelength		775	785	795	nm		
Threshold current	I _{th}	25	35	55	mA	P _o =90mW	
Operating current	I _{op}	90	115	160	mA		
Operating voltage	V_{op}	1.5	2	2.2	V		
Differential efficiency		0.8	1.1	1.3	mW/mA	P _o =88-90mW	
Parallel divergence angle	//	8	9	10	deg		
Perpendicular divergence angle		15	17	19	deg	P _o =90mW	
Parallel FFP deviation angle	//	-	<u>-</u>	±2	deg		
Perpendicular FFP deviation angle		-	-	±3	deg		
Emission point accuracy	x y z	-	- I	±80	um		

^{*} Pulse width 0.5us, duty cycle 50%

Do not operate the device above the maximum rating condition, even momentarily. It may cause unexpected permanent damage to the device.
 Semiconductor laser device is very sensitive to electrostatic discharge. High voltage spike current may change the characteristics of the device, or malfunction at any time during its service period. Therefore, proper measures for preventing electrostatic discharge are strongly recommended.
 Effective heat sink can help the device operates under a more relax condition; as a result, a more stable characteristics and better reliability can be achieved. So it is

recommended that always apply proper heat sink before the device is operating.

4. Do not look into the laser beam directly by bare eyes. The laser beam may cause severe damage to human eyes.

AlGaAs Infrared Laser Diode ADL-78901SX

