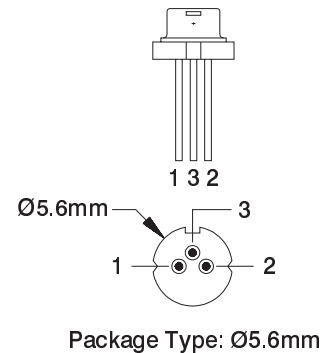
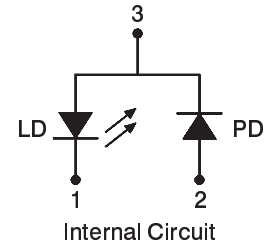


# Sony SLD1132VS Laser Diode Specifications

The Sony SLD1132VS is a AlGaInP visible laser diode that's designed for laser pointers. The operating wavelength of 635nm is approximately seven times brighter than a typical 670nm laser diode. The diode has a quantum well structure and single longitudinal mode. The SLD1132VS has a Ø5.6mm package.



## Absolute Maximum Ratings (Tc=25 °C)

Characteristic	Symbol	Value	Unit
Optical output power	Po	5	mW
Laser diode reverse voltage	VR(LD)	2	V
Photodiode reverse voltage	VR(PD)	15	V
Operating temperature	Topr	- 10 to +40	°C
Storage temperature	Tstg	- 40 to +85	°C

## Operating and Electrical Characteristics (Tc=25 °C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Threshold current	Ith	-	50	70	mA	-
Operating current	Iop	-	60	80	mA	Po=3mW
Differential efficiency	$\eta$	0.15	0.35	0.8	mW/mA	Po=3mW
Operating voltage	Vop	-	2.4	3.0	V	Po=3mW
Lasing Wavelength	$\lambda_p$	625	635	645	nm	Po=3mW
Beam divergence (parallel)	$\theta_{//}$	5	7	12	deg	Po=3mW, (FWHM)
Beam divergence (perpendicular)	$\theta_{\perp}$	24	32	40	deg	Po=3mW, (FWHM)
Monitor current	I <sub>m</sub>	0.05	0.10	0.30	mA	Po=3mW, VR(PD)=5V
Astigmatism	As	-	-	20	microns	-

Disclaimer: The laser diode information summarized above is based on the respective diode manufacturer's commercial catalog and/or data sheet specifications. The data is presumed to be accurate; however, it is subject to change without notice. Optima makes no representation as to the accuracy of the information and does not assume any responsibility for errors or omissions contained herein. The user must refer to the manufacturers specifications for details concerning the intended application and operation, diode limitations, and safety.

**For current pricing and stock availability please contact:**

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