

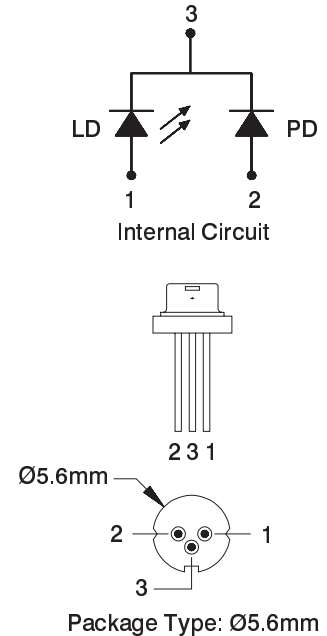
# Sony SLD1134VL

## Laser Diode Specifications

The Sony SLD1134VL is a AlGaInP self-pulsation laser diode designed for DVD applications and similar products requiring a low noise diode. The diode has a multi quantum well structure and is supplied in the 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)	20	V
Operating temperature	Topr	– 10 to + 70	°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	–	65	80	mA	–
Operating current	Iop	–	75	90	mA	Po=4mW
Differential efficiency	$\eta$	0.15	0.4	0.7	mW/mA	Po=4mW
Operating voltage	Vop	–	2.3	2.8	V	Po=4mW
Lasing Wavelength	$\lambda_p$	640	655	660	nm	Po=4mW
Beam divergence (parallel)	$\theta_{//}$	7	8.5	12	deg	Po=4mW, (FWHM)
Beam divergence (perpendicular)	$\theta_{\perp}$	25	35	40	deg	Po=4mW, (FWHM)
Monitor current	Im	0.05	0.10	0.25	mA	Po=4mW, VR(PD)=5V
Astigmatism	As	–	10	–	microns	Po=4mW

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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