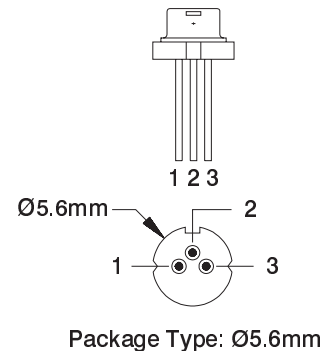
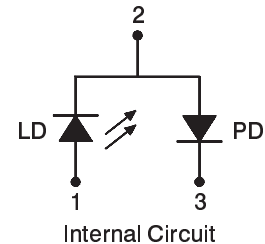


Sanyo DL7140-201S

Laser Diode Specifications

The Sanyo DL7140-201S is a high-power, index guided, near-infrared laser diode with an optical output of 70mW and a typical operating wavelength of 785nm. Possible applications include CD-R products and similar optical storage products. The DL7140-201S has a Ø5.6mm package.



Absolute Maximum Ratings (Tc=25 °C)

Characteristic	Symbol	Value	Unit
Optical output power	Po (CW)	80	mW
	Po (pulse)	85	mW
Laser diode reverse voltage	VR(LD)	2	V
Photodiode reverse voltage	VR(PD)	30	V
Operating temperature	Topr	- 10 to +60	°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	I _{th}	—	30	50	mA	CW
Operating current	I _{op}	—	100	140	mA	Po=70mW
Lasing Wavelength	λ _p	775	785	800	nm	Po=70mW
Beam divergence (parallel)	θ _{//}	6	8	10	deg	Po=70mW, (FWHM)
Beam divergence (perpendicular)	θ _⊥	14	17	20	deg	Po=70mW, (FWHM)
Differential efficiency	dPo/dI _{op}	0.6	1.0	1.4	mW/mA	—
Monitor current	I _m	0.10	0.25	0.60	mA	Po=70mW
Astigmatism	As	—	—	10	microns	Po=70mW

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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