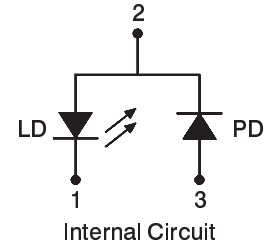


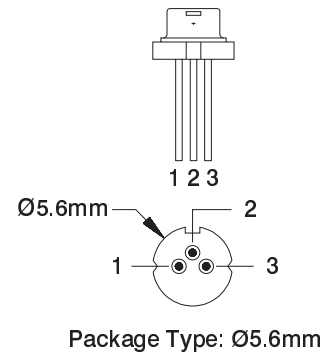
Sanyo DL3149-070 Laser Diode Specifications

The Sanyo DL3149-070 is a self-pulsation type index guided AlGaInP laser diode with a typical output of 685nm and an absolute maximum of 5mW. The diode features low threshold current which is achieved by a strained multi-quantum well active layer. The DL3149-070 is suitable for applications including optical disc systems, measurement systems, and other products where low noise and reduced speckle is desirable. The DL3149-070 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)	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}	-	40	70	mA	-
Operating current	I _{op}	-	50	80	mA	Po=3mW
Lasing Wavelength	λ _p	-	685	695	nm	Po=3mW
Beam divergence (parallel)	θ _{//}	6	8.5	11	deg	Po=3mW, (FWHM)
Beam divergence (perpendicular)	θ _⊥	25	37	45	deg	Po=3mW, (FWHM)
Differential efficiency	η	-	0.3	-	mW/mA	-
Monitor current	I _m	-	0.15	-	mA	Po=3mW
Astigmatism	As	-	12	-	microns	Po=3mW

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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