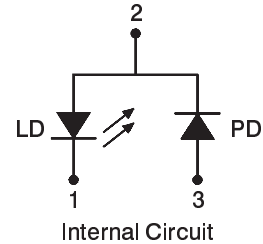


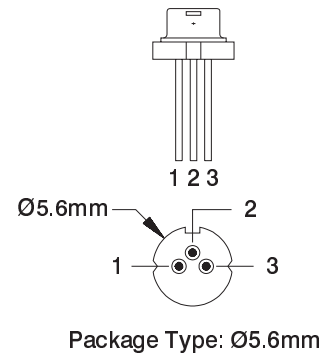
Sanyo DL3147-041 Laser Diode Specifications

The Sanyo DL3147-041 is an index guided AlGaInP laser diode with a typical output of 645nm. The diode features low threshold current and an extended operating temperature which is achieved by a strained multi-quantum well active layer. The DL3147-041 is suitable for applications including bar-code readers, optical disc systems and similar optical storage products. The DL3147-041 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	Ith	25	45	60	mA	-
Operating current	Iop	40	60	80	mA	Po=5mW
Operating voltage	Vop	2.0	2.2	2.5	V	Po=5mW
Lasing Wavelength	λ_p	635	645	655	nm	Po=5mW
Beam divergence (parallel)	$\theta_{//}$	7	7.5	10	deg	Po=5mW, (FWHM)
Beam divergence (perpendicular)	θ_{\perp}	25	30	40	deg	Po=5mW, (FWHM)
Differential efficiency	η	0.15	0.35	0.8	mW/mA	-
Monitor current	I _m	0.05	0.15	0.5	mA	Po=5mW
Astigmatism	As	-	8	-	microns	Po=5mW

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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