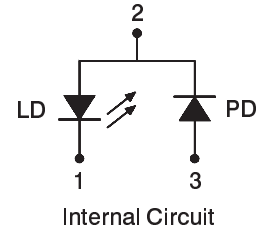


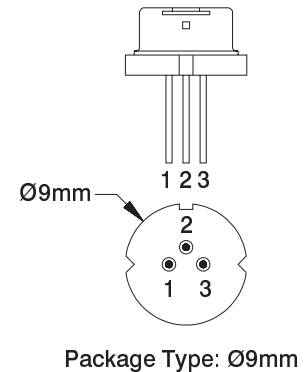
Sanyo DL4038-031 Laser Diode Specifications

The Sanyo DL4038-031 is an index guided AlGaInP laser diode with a typical output of 635nm and an absolute maximum output of 10mW. The diode features low threshold current which is achieved by a strained multi-quantum well active layer. A lasing wavelength of 635nm is eight times brighter than a 670nm diode. The DL4038-031 is suitable for applications including laser printers, laser alignment systems, and laser levels. The DL4038-031 has a Ø9mm package.



Absolute Maximum Ratings (Tc=25 °C)

Characteristic	Symbol	Value	Unit
Optical output power	Po	10	mW
Laser diode reverse voltage	VR(LD)	2	V
Photodiode reverse voltage	VR(PD)	30	V
Operating temperature	Topr	- 10 to + 50	°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}	-	35	60	mA	-
Operating current	I _{op}	-	55	80	mA	Po=10mW
Operating voltage	V _{op}	-	2.3	2.6	V	Po=10mW
Lasing Wavelength	λ _p	-	635	645	nm	Po=10mW
Beam divergence (parallel)	θ _{//}	6	8	10	deg	Po=10mW, (FWHM)
Beam divergence (perpendicular)	θ _⊥	25	30	40	deg	Po=10mW, (FWHM)
Differential efficiency	η	-	0.5	-	mW/mA	-
Monitor current	I _m	0.05	0.15	0.4	mA	Po=10mW
Astigmatism	A _s	-	8	-	microns	Po=10mW

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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