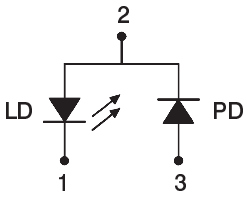
Sanyo DL4038-026
Laser Diode Specifications

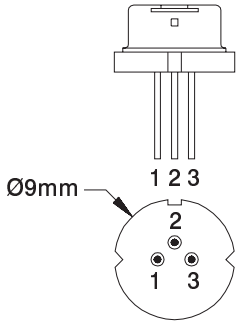
The Sanyo DL4038-026 is an index guided AlGaInP laser diode with a typical output of 635nm and an absolute maximum output of 25mW. The diode features low threshold current which is achieved by a strained multi-quantum well active layer. A lasing wavelength of 635nm is eight times brighter than a 670nm diode. The DL4038-026 is suitable for applications including laser printers, laser alignment systems, and laser levels. The DL4038-026 has a Ø9mm package.



Internal Circuit

Absolute Maximum Ratings (Tc=25 °C)

Characteristic	Symbol	Value	Unit
Optical output power	Po	25	mW
Laser diode reverse voltage	VR(LD)	2	V
Photodiode reverse voltage	VR(PD)	30	V
Operating temperature	Topr	–10 to +40	°C
Storage temperature	Tstg	–40 to +85	°C



Package Type: Ø9mm

Operating and Electrical Characteristics (Tc=25 °C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Threshold current	Ith	–	40	60	mA	–
Operating current	Iop	–	70	85	mA	Po=20mW
Operating voltage	Vop	–	2.3	2.6	V	Po=20mW
Lasing Wavelength	λp	–	635	645	nm	Po=20mW
Beam divergence (parallel)	θ//	6	7	10	deg	Po=20mW, (FWHM)
Beam divergence (perpendicular)	θ⊥	22	28	35	deg	Po=20mW, (FWHM)
Differential efficiency	η	–	0.7	–	mW/mA	–
Monitor current	Im	0.1	0.2	0.5	mA	Po=20mW
Astigmatism	As	–	10	–	microns	Po=20mW

For current pricing and stock availability please contact:

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