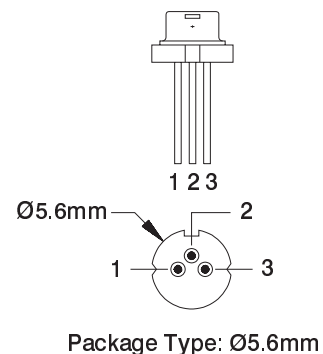
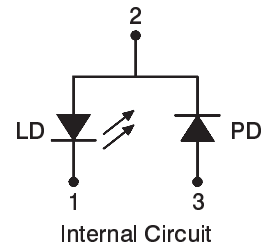


Toshiba TOLD9225M

Laser Diode Specifications

The Toshiba TOLD9225M is an index guided laser diode with a multi-quantum well structure. The maximum optical output is 10mW with a typical operating wavelength of 670nm. The TOLD9225M has a Ø5.6mm 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 +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	60	mA	—
Operating current	I _{op}	—	60	80	mA	Po=10mW
Operating voltage	V _{op}	—	2.4	3.0	V	Po=10mW
Lasing Wavelength	λ _p	660	670	680	nm	Po=10mW
Beam divergence (parallel)	θ _{//}	5	8	11	deg	Po=10mW, (FWHM)
Beam divergence (perpendicular)	θ _⊥	15	18	23	deg	Po=10mW, (FWHM)
Monitor current	I _m	0.1	0.2	0.5	mA	Po=10mW
Photodiode dark current	I _D (PD)	—	—	100	nA	VR(PD)=5V
Photodiode total capacitance	C _T (PD)	—	—	20	pF	VR(PD)=5V, f=1MHz
Astigmatism	As	—	6	—	microns	—

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.

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