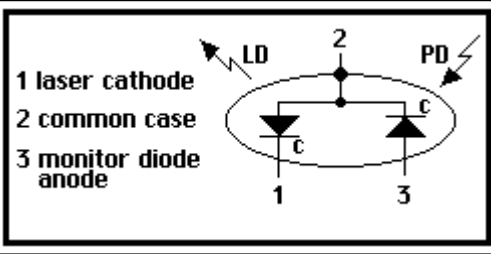


US-Lasers: 670nm-5mW-50C Visible Laser Diode Specifications

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RED LASER DIODE DATA SHEETS

ABSOLUTE MAXIMUM RATINGS (T_c=25 °C)

<p>TECHNICAL DATA</p> <p>Visible laser diode light output 670nm</p> <p>Optical power output 5mW CW</p> <p>Package Type TO-18</p> <p>Built-in photo diode for monitoring laser output</p>	 <p>Pin Out Diagram - Style A</p>
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Items	Symbols	Values	Unit
Optical output power	P _o	7	mW
Laser diode reverse voltage	V	2	V
Photo diode reverse voltage	V	30	V
Operating temperature	T _{opr}	-10 ~ +50	°C
Storage temperature	T _{stg}	-40 ~ +85	°C

OPTICAL and ELECTRICAL CHARACTERISTICS - (T_c=25 °C)

Items	Symbols	Min.	Typ.	Max.	Unit	Test Condition
Optical output power	P _o	-	5	-	mW	Kink Free
Threshold current	I _{th}	-	30	60	mA	-
Slope Efficiency	η	0.4	-	1.0	mW/mA	3mW I _(4mW) - I _(1mW)
Operating current	I _{op}	-	35	70	mA	P _o =5mW
Operating voltage	V _{op}	-	-	2.7	V	P _o =5mW
Lasing wavelength		660	670	680	nm	P _o =5mW
Beam divergence (parallel)		6	9	12	deg	P _o =5mW
Beam divergence (perpendicular)		20	30	40	deg	P _o =5mW
Monitor current	I _m	0.03	-	0.2	mA	P _o =5mW