

US-Lasers: 635nm-5mW Visible Laser Diode Specifications

DATA SHEETS 635nm-5mWRED LASER MODULE & DIODE

Barrel Specs:

- 3/8 - 56 Thread Size
- Dia: 10.4mm
- Length: 17mm

Collect Specs:

- 3/8 - 56 Thread Size
- 4.3mm Aperture
- Half Hard Brassbbb

Lens Housing Specs:

- 3/8 - 56 Thread Size
- 3.7mm Aperture
- 7mm Plastic Lens

RED LASER DIODE DATA SHEETS

ABSOLUTE MAXIMUM RATINGS (Tc=25 °C)

TECHNICAL DATA

Visible laser diode light output	635nm
Optical power output	5mW CW
Package Type	TO-18
Built-in photo diode for monitoring laser output	

Items	Symbols	Values	Unit
Optical output power	Po	7	mW
Laser diode reverse voltage	V	2	V
Photo diode reverse voltage	V	30	V
Operating temperature	Topr	-10 ~ +50	°C
Storage temperature	Tstg	-40 ~ +85	°C

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

Items	Symbols	Min.	Typ.	Max.	Unit	Test Condition
Optical output power	Po	-	5	-	mW	-
Threshold current	Ith	-	30	40	mA	-
Operating current	Iop	-	40	50	mA	Po=5mW
Operating voltage	Vop	-	2.3	2.7	V	Po=5mW
Lasing wavelength		630	637	640	nm	Po=5mW
Beam divergence		6	8	10	deg	Po=5mW
		22	35	40	deg	Po=5mW
Monitor current	Im	100	150	500	μA	Po=5mW