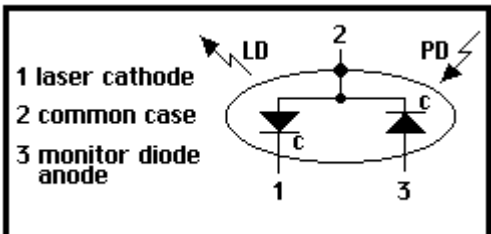


US-Lasers: 650nm-5mW - Red Laser Diode

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RED LASER DIODE DATA SHEET ABSOLUTE MAXIMUM RATINGS - (T_c=25 °C)

TECHNICAL DATA			
Visible laser diode light output	650nm		
Optical power output	5mW CW		
Package Type	5.6mm		
Built-in photo diode for monitoring laser output			
		Pin Out Diagram - Style A	

Items	Symbols	Values	Unit
Optical output power	P _o	5	mW
Laser diode reverse voltage	V	2	V
Photo diode reverse voltage	V	30	V
Operating temperature	T _{opr}	-10 ~ +60	°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	-
Threshold current	I _{th}	-	20	40	mA	-
Operating current	I _{op}	-	40	60	mA	P _o =5mW
Operating voltage	V _{op}	-	2.7	-	V	P _o =5mW
Lasing wavelength		645	650	655	nm	P _o =5mW
Beam divergence		-	5	11	deg	P _o =5mW
Beam divergence		-	25	37	deg	P _o =5mW
Monitor current	I _s	-	10	20	uA	P _o =5mW
Astigmatism	A _s	-	11	-	um	P _o =5mW
MTTF			10000 hrs			P _o =5mW
Emitter Size	10 x 60 Microns - Emitter Distance to Cap Lens = 0.3mm					
Structure	Index Guided					