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

Back to Laser Diodes

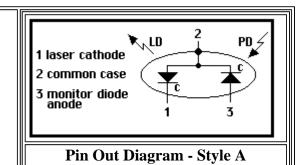
RED LASER DIODE DATA SHEET ABSOLUTE MAXIMUM RATINGS - (Tc=25 °C)

TECHNICAL DATA

Visible laser diode light 650nm

Optical power output 5mW CW
Package Type 5.6mm

Built-in photo diode for monitoring laser output



Items	Symbols	Values	Unit
Optical output power	Po	5	mW
Laser diode reverse voltage	V	2	V
Photo diode reverse voltage	V	30	V
Operating temperature	Topr	-10 ~ +60	°C
Storage temperature	Tstg	-40 ~ +85	$^{\circ}\mathrm{C}$

OPTICAL and ELECTRICAL CHARACTERISTICS - (Tc=25 °C)									
Items	Symbols	Min.	Тур.	Max.	Unit	Test Condition			
Optical output power	Po	-	5	-	mW	-			
Threshold current	Ith	-	20	40	mA	-			
Operating current	Iop	-	40	60	mA	Po=5mW			
Operating voltage	Vop	-	2.7	-	V	Po=5mW			
Lasing wavelength		645	650	655	nm	Po=5mW			
Beam divergence		-	5	11	deg	Po=5mW			
Beam divergence		-	25	37	deg	Po=5mW			
Monitor current	Is	-	10	20	uĀ	Po=5mW			
Astigmatism	As	-	11	-	um	Po=5mW			
MTTF			10000 hrs			Po=5mW			
Emitter Size	10 x 60 M	$10 \times 60 \text{ Microns}$ - Emitter Distance to Cap Lens = 0.3mm							
Structure	Inday Gui	Index Guided							

Structure Index Guided