

Model No. LD-850-5A

Features

- Index Guided MQW Structure
- Wavelength 850 nm (Typ.)
- 5mW CW Operation at -10 to +50 °C
- Low Threshold Current 25mA (Typ.)
- Standard package: TO-18 (Ø 5.6mm package)

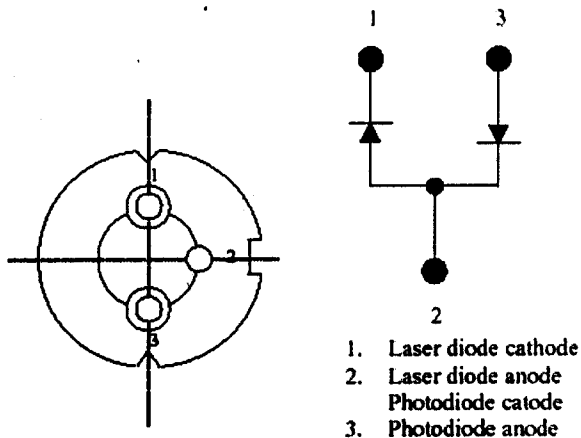
Absolute Maximum Ratings

PARAMETER	SYMBOL	RATINGS
Optical Output Power	P_o	5 mW
LD Reverse Voltage	V_{RL}	2 V
PD Reverse Voltage	V_{RD}	30 V
Operation Temperature	T_o	-10 to +60 °C
Storage Temperature	T_{STG}	-40 to +85°C

Electrical – Optical Characteristics

PARAMETER	SYMBOL	MIN.	TYP	MAX.	UNITS	TEST CONDITION
Lasing Wavelength	λ_p	830	850	870	nm	$P_o=5mW$
Threshold Current	I_{th}	-	25	40	mA	$P_o=5mW$
Operation Current	I_{op}	-	35	50	mA	$P_o=5mW$
Operation Voltage	V_{op}	2.0	2.2	2.7	V	$P_o=5mW$
Monitor Current	I_m	100	-	500	μA	$P_o=5mW, V_R = 5V$
Slope Efficiency	η	0.1	0.3	0.6	mW/mA	$P_o=5mW$
Beam Divergence	Θ_{\parallel}	8	10	12	deg	$P_o=5mW$ (parallel)
Beam Divergence	Θ_{\perp}	25	31	40	deg	$P_o=5mW$ (perpendicular)
Astigmatism	A_s		11		μm	$P_o=5mW, NA=0.4$

Pin Configuration



Bottom View

*Case and Pin#2 are common.

The above specifications are subject to change without notice.