

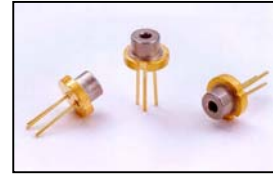
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RLT1460-5MG TECHNICAL DATA



Infrared Laser Diode

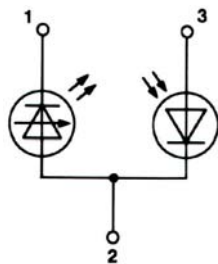
Structure: **double heterostructure**
 Lasing wavelength: **1460 nm typ.**
 Max. optical power: **5 mW**
 Package: **5.6 mm**

NOTE!

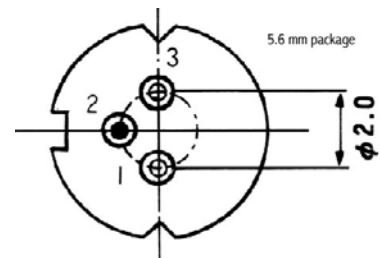
**LASERDIODE
 MUST BE COOLED!**



PIN CONNECTION:



- 1) Laser diode cathode
- 2) Laser diode anode and photodiode cathode
- 3) Photodiode anode



Maximum Ratings (Tc=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power	P_o	5	mW
LD Reverse Voltage	$V_{R(LD)}$	2	V
PD Reverse Voltage	$V_{R(PD)}$	30	V
Operating Temperature	T_{op}	-10 .. +50	°C
Storage Temperature	T_{stg}	-40 .. +85	°C

Optical-Electrical Characteristics (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Threshold Current	I_{th}	cw	-	15	20	mA
Operation Current	I_{op}	$P_o = 5 \text{ mW}$	-	35	40	mA
Operation Voltage	V_{op}	$P_o = 5 \text{ mW}$	1.0	1.2	1.3	V
Lasing Wavelength	λ_p	$P_o = 5 \text{ mW}$	1450	1460	1470	nm
Beam Divergence	$\theta_{//}$	$P_o = 5 \text{ mW}$	8	10	15	°
Beam Divergence	θ_{\perp}	$P_o = 5 \text{ mW}$	25	30	40	°
Differential Efficiency	η	$P_o = 5 \text{ mW}$	-	200	300	$\mu\text{W}/\text{mA}$
Monitor Current	I_m	$P_o = 5 \text{ mW}, V_r=5\text{V}$	250	350	650	μA