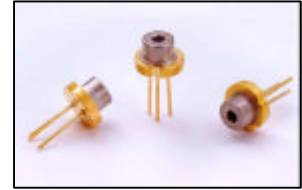


ROITHNER LASERTECHNIK

A-1040 WIEN, FLEISCHMANGASSE 9
 TEL: +43 -1- 586 52 43 FAX: +43 -1- 586 41 43
 e-mail: office@roithner-laser.com http://www.roithner-laser.com

RLT9805MG TECHNICAL DATA



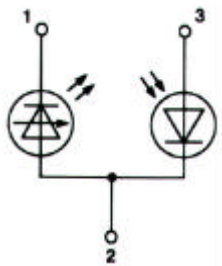
Infrared Laserdiode

Structure: index guided, single transverse mode
 Lasing wavelength: 980 nm typ.
 Output power: 5 mW cw
 Package: 5.6 mm, TO-18

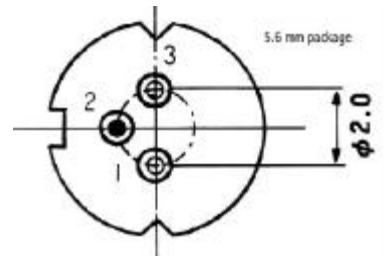


NOTE!
 LASERDIODE
 MUST BE COOLED!

PIN CONNECTION:



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



Maximum Ratings (T_c = 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
Operation Case Temperature	T _C	-10 .. +60	°C
Storage Temperature	T _{STG}	-40 .. +85	°C

Optical-Electrical Characteristics (T_c = 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 mW		30	40	mA
Operating Voltage	V _{op}	P _o = 5 mW	1.4	1.5	1.7	V
Lasing Wavelength	λ _p	P _o = 5 mW	970	980	990	nm
Beam Divergence	θ _{//}	P _o = 5 mW	7	8	12	°
Beam Divergence	θ _⊥	P _o = 5 mW	30	33	38	°
Slope Efficiency	η	cw	0.5	0.7	1	mW/mA
Monitor Current	I _m	P _o = 5 mW	100	150	200	μA