

ROITHNER LASERTECHNIK

A-1040 WIEN, FLEISCHMANNGASSE 9
TEL: +43 -1- 586 52 43 FAX: +43 -1- 586 41 43
e-mail: rlt@mcb.at <http://www.roithner.mcb.at>

RLT7825G TECHNICAL DATA

Infrared Laserdiode

Structure: **GaAlAs**, double heterostructure, index guided

Lasing wavelength: **780 nm**

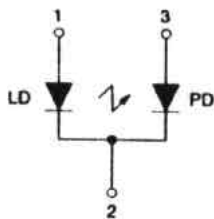
Max. optical power: **25 mW**

Package: **9 mm**

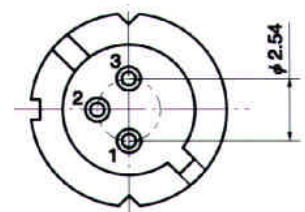


NOTE!
LASERDIODE
MUST BE COOLED!

PIN CONNECTION:



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



Absolute Maximum Ratings (T_c=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power	P _o	25	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operation Case Temperature	T _C	-10 .. +50	°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}		-	50	70	mA
Operation Current	I _{op}	P _o = 20 mW	-	90	130	mA
Operating Voltage	V _{op}	P _o = 20 mW		2.2	2.5	V
Lasing Wavelength	λ _p	P _o = 20 mW	770	780	800	nm
Beam Divergence	θ	P _o = 20 mW	7	11	15	°
Beam Divergence	θ _⊥	P _o = 20 mW	15	28	40	°
Off Axis Angle	Δθ _⊥	-	-	-	± 3	°
Off Axis Angle	Δθ	-	-	-	± 3	°
Monitor Current	I _m	P _o = 20 mW	0.2	1.0	-	mA