



## RLT7605MG

### TECHNICAL DATA

#### Infrared Laserdiode

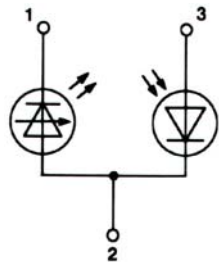
Structure: **index guided single transverse mode**

Lasing wavelength: **760 nm typ.**

Output power: **5 mW cw**

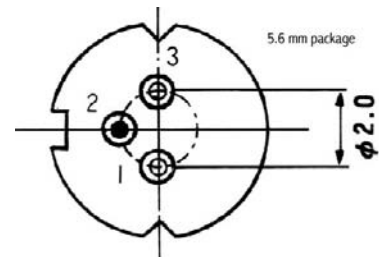
Package: **5.6 mm, TO-18**

**NOTE!**  
 LASERDIODE  
 MUST BE COOLED!



#### PIN CONNECTION:

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



#### Maximum Ratings (T<sub>c</sub> = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power	P <sub>o</sub>	5	mW
LD Reverse Voltage	V <sub>R(LD)</sub>	2	V
PD Reverse Voltage	V <sub>R(PD)</sub>	30	V
Operation Case Temperature	T <sub>C</sub>	-10 .. +50	°C
Storage Temperature	T <sub>STG</sub>	-40 .. +85	°C

#### Optical-Electrical Characteristics (T<sub>c</sub> = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Threshold Current	I <sub>th</sub>	cw		15	20	mA
Operation Current	I <sub>op</sub>	P <sub>o</sub> = 5 mW		25	40	mA
Operating Voltage	V <sub>op</sub>	P <sub>o</sub> = 5 mW	1.8	1.9	2.0	V
Lasing Wavelength	λ <sub>p</sub>	P <sub>o</sub> = 5 mW	750	760	766	nm
Spectral Width	Δλ	P <sub>o</sub> = 5 mW	0.2	0.4	1.1	nm
Beam Divergence	θ <sub>∥</sub>	P <sub>o</sub> = 5 mW	7	10	12	°
Beam Divergence	θ <sub>⊥</sub>	P <sub>o</sub> = 5 mW	30	33	38	°
Slope Efficiency	η	cw	0.5	0.65	1	mW/mA
Monitor Current	I <sub>m</sub>	P <sub>o</sub> = 5 mW	250	400	800	μA