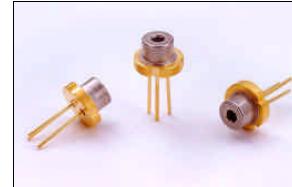


# ***ROITHNER LASERTECHNIK***

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

## **S6515MG TECHNICAL DATA**



### **High Power Visible Wavelength Laserdiode**

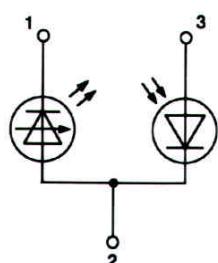
Structure InGaAIP, index guided single transverse mode

Lasing wavelength 655nm typ.

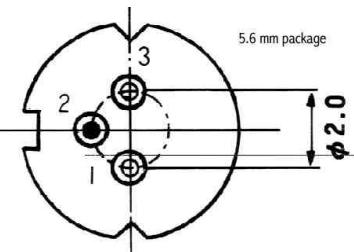
Output power 15 mW, CW

Package 5.6 mm MG, TO-18

#### **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 <sub>o</sub>	15	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 .. +60	°C
Storage Temperature	T <sub>STG</sub>	-40 .. +85	°C

#### **Optical-Electrical Characteristics (Tc = 25°C)**

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Threshold Current	I <sub>th</sub>			15	20	mA
Operation Current	I <sub>op</sub>	P <sub>o</sub> =15mW		30	40	mA
Operating Voltage	V <sub>op</sub>	P <sub>o</sub> =15mW		2.1	2.6	V
Lasing Wavelength	λ <sub>p</sub>	P <sub>o</sub> =15mW	650	655	660	nm
Beam Divergence	θ//	P <sub>o</sub> =15mW	5	7	9	°
Beam Divergence	θ⊥	P <sub>o</sub> =15mW	30	32	38	°
Slope Efficiency	η		0.5	0.8	1	mW/mA
Monitor Current	I <sub>m</sub>	P <sub>o</sub> =15mW	50	200	500	μA