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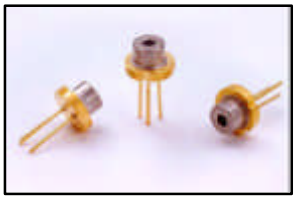
RLT9830MG-N TECHNICAL DATA

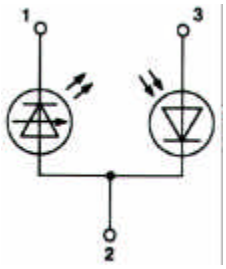


High Power Infrared Laserdiode

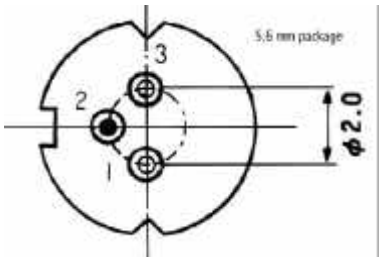
Structure: **index guided, single transverse mode**
Lasing wavelength: **980 nm typ.**
Output power: **30 mW cw**
Package: **5.6 mm, TO-18**

NOTE!
LASERDIODE
MUST BE COOLED!

PIN CONNECTION:



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



Maximum Ratings (Tc = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power	P_o	30	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 (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Threshold Current	I_{th}	cw	10	15	20	mA
Operation Current	I_{op}	P_o = 30 mW		60	80	mA
Operating Voltage	V_{op}	P_o = 30 mW		1.5	1.7	V
Lasing Wavelength	λ_p	P_o = 30 mW	970	980	983	nm
Beam Divergence	$\theta_{//}$	P_o = 30 mW	7	8	12	°
Beam Divergence	$\theta_{\perp}$	P_o = 30 mW	30	33	38	°
Slope Efficiency	η	cw	0.5	0.7	1	mW/mA
Monitor Current	I_m	P_o = 30 mW		0.75	1	mA