

RLT9830MG

rev.2 04/15

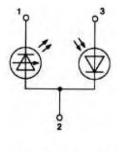
High Power Infrared Laserdiode

Structure: index guided, multi transverse mode

Lasing wavelength: **980 nm typ.** Output power: **30 mW cw** Package: **5.6 mm, TO-18**



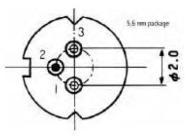
PIN CONNECTION:



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	Po	30	mW	
LD Reverse Voltage	V _{R(LD)}	2	V	
PD Reverse Voltage	V _{R(PD)}	30	V	
Operation Case Temperature	Tc	-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	l _{th}	CW	10	15	20	mA
Operation Current	l _{op}	$P_o = 30 \text{ mW}$		90		mA
Operating Voltage	V _{op}	$P_o = 30 \text{ mW}$		1.5	1.7	V
Lasing Wavelength	λρ	$P_o = 30 \text{ mW}$	970	980	983	nm
Beam Divergence	θ//	$P_o = 30 \text{ mW}$	7	8	12	0
Beam Divergence	θ_{\perp}	$P_o = 30 \text{ mW}$	30	33	38	0
Slope Efficiency	η	CW	0.5	0.7	1	mW/mA
Monitor Current	Im	$P_o = 30 \text{ mW}$	100		500	μA

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The above specifications are for reference purpose only and subjected to change without prior notice