



RLT995-5MG

Laser Diode Technical Data

ABSOLUTE MAXIMUM RATINGS ($T_c=25^\circ\text{C}$)

DESCRIPTION	SYMBOL	RATED VALUE
Optical Power (mW)	P_o	5
Operation Temperature ($^\circ\text{C}$)	T_{op}	-10 to +50
Storage Temperature ($^\circ\text{C}$)	T_{stg}	-40 to +85
LD Reverse Voltage (V)	V_{LDR}	2
PD Reverse Voltage (V)	V_{PDR}	30

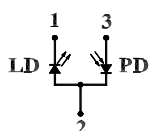
Features

- Index Guided MQW Structure
- Wavelength : 995 nm (Typ.)
- Optical Power : 5 mW CW
- Threshold Current : 25 mA (Typ.)
- Package Style : TO-18 (5.6 mmØ)

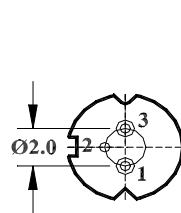
OPTICAL AND ELECTRICAL CHARACTERISTICS ($T_c=25^\circ\text{C}$)

DESCRIPTION	SYMBOL	MIN.	TYPICAL	MAX.	TEST CONDITION
Lasing Wavelength (nm)	λ_p	985	995	1005	$P_o=5\text{mW}$
Threshold Current (mA)	I_{th}	20	25	45	$P_o=5\text{mW}$
Operating Current (mA)	I_{op}	25	35	50	$P_o=5\text{mW}$
Operating Voltage (V)	V_{op}	1.8	2.0	2.5	$P_o=5\text{mW}$
Monitor Current (mA)	I_m	0.1	0.25	0.4	$P_o=5\text{mW}$, $V_R=5\text{V}$
Slope Efficiency (mW/mA)	η	0.5	0.7	0.9	***
Beam Divergence $\parallel$ ($^\circ$)	$\theta_{\parallel}$	8	10	12	$P_o=5\text{mW}$
Beam Divergence $\perp$ ($^\circ$)	$\theta_{\perp}$	25	30	40	$P_o=5\text{mW}$
Astigmatism (μm)	A_s	*	11	*	$P_o=5\text{mW}$, $NA=0.4$

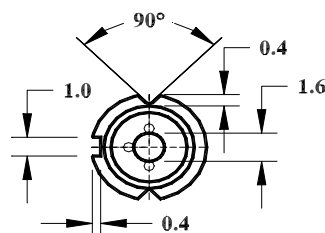
Pin Connection



1. Laser diode cathode
 2. Laser diode anode
 3. Photodiode cathode
 3. Photodiode anode
- * Case and Pin no. 2 are common



Bottom View



Top View

