



RLT808100MG

ABSOLUTE MAXIMUM RATINGS (T_c=25 °C)

Features

- Index Guided MQW Structure
- Wavelength : 808 nm (Typ.)
- Optical Power : 100 mW CW
- Threshold Current : 100 mA (Typ.)
- Package Style : TO-18 (5.6 mmØ)

DESCRIPTION	SYMBOL	RATED VALUE
Optical Power (mW)	P _o	100
Operation Temperature (°C)	T _{op}	-10 to +50
Storage Temperature (°C)	T _{stg}	-40 to +85
LD Reverse Voltage (V)	V _{LDR}	2
PD Reverse Voltage (V)	V _{PDR}	30

OPTICAL AND ELECTRICAL CHARACTERISTICS (T_c=25 °C)

DESCRIPTION	SYMBOL	MIN.	TYPICAL	MAX.	TEST CONDITION
Lasing Wavelength (nm)	λ _p	803	808	815	P _o =100mW
Threshold Current (mA)	I _{th}	70	100	150	P _o =100mW
Operating Current (mA)	I _{op}	200	250	350	P _o =100mW
Operating Voltage (V)	V _{op}	1.8	2.0	2.5	P _o =100mW
Monitor Current (mA)	I _m	0.1	.5	1.5	P _o =100mW, V _R =5V
Slope Efficiency (mW/mA)	η	0.5	0.7	0.9	***
Beam Divergence (°)	θ	3	5	8	P _o =100mW
Beam Divergence ⊥ (°)	θ _⊥	30	40	50	P _o =100mW
Astigmatism (μm)	A _s	*	11	*	P _o =100mW, NA=0.4

