

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

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 $\parallel$ (°)	$\theta_{\parallel}$	3	5	8	$P_o=100mW$
Beam Divergence $\perp$ (°)	$\theta_{\perp}$	30	40	50	$P_o=100mW$
Astigmatism (μm)	A_s	*	11	*	$P_o=100mW, NA=0.4$

