



RLT80830MG

Features

- Index Guided MQW Structure
- Wavelength : 808 nm (Typ.)
- Optical Power : 30 mW CW
- Threshold Current : 50 mA (Typ.)
- Package Style : TO-18 (5.6 mmØ)

DESCRIPTION	SYMBOL	RATED VALUE
Optical Power (mW)	P_o	30
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 ($T_c=25^\circ C$)

DESCRIPTION	SYMBOL	MIN.	TYPICAL	MAX.	TEST CONDITION
Lasing Wavelength (nm)	λ_p	800	808	815	$P_o=30mW$
Threshold Current (mA)	I_{th}	30	50	70	$P_o=30mW$
Operating Current (mA)	I_{op}	50	80	100	$P_o=30mW$
Operating Voltage (V)	V_{op}	1.8	2.0	2.5	$P_o=30mW$
Monitor Current (mA)	I_m	0.05	0.5	1.0	$P_o=30mW, V_R=5V$
Slope Efficiency (mW/mA)	η	0.5	0.7	0.9	***
Beam Divergence \parallel (°)	θ_{\parallel}	8	10	12	$P_o=30mW$
Beam Divergence \perp (°)	θ_{\perp}	25	30	40	$P_o=30mW$
Astigmatism (μm)	A_s	*	11	*	$P_o=30mW, NA=0.4$

