



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 | * | $P_o=30mW, NA=0.4$ |

