



## RLT808-10MG

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

DESCRIPTION	SYMBOL	RATED VALUE
Optical Power (mW)	$P_o$	10
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 : 808 nm (Typ.)
- Optical Power : 10 mW CW
- Threshold Current : 30 mA ( Typ. )
- Package Style : TO-18 (5.6 mm $\varnothing$ )

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

DESCRIPTION	SYMBOL	MIN.	TYPICAL	MAX.	TEST CONDITION
Lasing Wavelength (nm)	$\lambda_p$	803	808	815	$P_o=10\text{mW}$
Threshold Current (mA)	$I_{th}$	20	30	50	$P_o=10\text{mW}$
Operating Current (mA)	$I_{op}$	30	50	70	$P_o=10\text{mW}$
Operating Voltage (V)	$V_{op}$	1.8	2.0	2.5	$P_o=10\text{mW}$
Monitor Current (mA)	$I_m$	0.1	0.4	0.9	$P_o=10\text{mW}$ , $V_R=5\text{V}$
Slope Efficiency (mW/mA)	$\eta$	0.5	0.7	0.9	***
Beam Divergence $\parallel$ ( $^\circ$ )	$\theta_{\parallel}$	8	10	12	$P_o=10\text{mW}$
Beam Divergence $\perp$ ( $^\circ$ )	$\theta_{\perp}$	25	30	40	$P_o=10\text{mW}$
Astigmatism ( $\mu\text{m}$ )	$A_s$	*	11	*	$P_o=10\text{mW}$ , $NA=0.4$

