



## RLT878-5MG

## Laser Diode Technical Data

### ABSOLUTE MAXIMUM RATINGS ( T<sub>c</sub>=25 °C )

DESCRIPTION	SYMBOL	RATED VALUE
Optical Power (mW)	P <sub>o</sub>	5
Operation Temperature (°C)	T <sub>op</sub>	-10 to +50
Storage Temperature (°C)	T <sub>stg</sub>	-40 to +85
LD Reverse Voltage (V)	V <sub>LDR</sub>	2
PD Reverse Voltage (V)	V <sub>PDR</sub>	30

### Features

- Index Guided MQW Structure
- Wavelength : 878 nm (Typ.)
- Optical Power : 5 mW CW
- Threshold Current : 25 mA ( Typ. )
- Package Style : TO-18 (5.6 mmØ)

### OPTICAL AND ELECTRICAL CHARACTERISTICS ( T<sub>c</sub>=25 °C )

DESCRIPTION	SYMBOL	MIN.	TYPICAL	MAX.	TEST CONDITION
Lasing Wavelength (nm)	λ <sub>p</sub>	870	878	890	P <sub>o</sub> =5mW
Threshold Current (mA)	I <sub>th</sub>	20	25	45	P <sub>o</sub> =5mW
Operating Current (mA)	I <sub>op</sub>	15	25	35	P <sub>o</sub> =5mW
Operating Voltage (V)	V <sub>op</sub>	1.8	2.0	2.5	P <sub>o</sub> =5mW
Monitor Current (mA)	I <sub>m</sub>	0.1	0.35	0.55	P <sub>o</sub> =5mW, V <sub>R</sub> =5V
Slope Efficiency (mW/mA)	η	0.5	0.7	0.9	***
Beam Divergence    (°)	θ <sub>  </sub>	8	10	12	P <sub>o</sub> =5mW
Beam Divergence ⊥ (°)	θ <sub>⊥</sub>	25	30	40	P <sub>o</sub> =5mW
Astigmatism (μm)	A <sub>s</sub>	*	11	*	P <sub>o</sub> =5mW, NA=0.4

