



RCLC-65A50

650nm 50um RCLED Chip for Sensors



Description

The Lasermate RCLC-65A50 is a 650nm resonant cavity LED (RCLED) chip featuring a 50 μ m emitting diameter for enhanced optical output. Engineered for sensors and industrial applications, the device operates with low current bias, offering high optical efficiency, excellent wavelength uniformity, and long-term stability—ideal for integration into precision sensing and illumination systems.

Features

- 650nm RCLED chip
- 50 μ m emitting diameter
- Low current bias

Applications

- Industrial application
- Sensors

Specifications

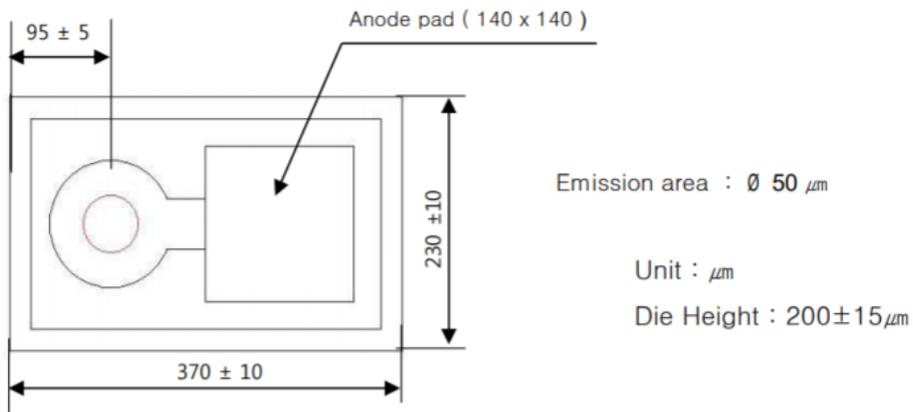
Absolute Maximum Ratings				
Parameters	Min.	Max.	Unit	Conditions
Storage temperature	-40	100	°C	
Operating temperature	-20	70	°C	
Continuous Forward Current		10	mA	
Continuous Reverse Voltage		5	V	

Electro-Optical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise stated)						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Total Radiant Flux	Φ_o	0.2			mW	$I_f=5\text{mA}$
Peak Wavelength	λ_p	640	650	665	nm	$I_f=5\text{mA}$
Breakdown Voltage	V_b		-10		V	
Forward Voltage	V_f		2.1	2.25	V	$I_f=5\text{mA}$

Notes:

- Test data were measured in TO-header of wire bonded chip.
- Value is referenced to the vender's measurement system (correlation to customer product is required).

Outline Dimensions



Additional Notes

- The inherent design of this component causes it to be sensitive to electrostatic discharge (ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product.
- Specifications are subject to change without notice.