



## RCLC-65A25 650nm 25µm RCLED Chip for Sensors



### Description

The Lasermate RCLC-65A25 is a 650nm resonant cavity light emitting diode (RCLED) chip with a 25µm emitting diameter. Designed for industrial and sensing applications, this RCLED chip offers high brightness, narrow spectral width, and excellent stability, making it well-suited for precision optical systems.

### Features

- Resonant cavity LED (RCLED) chip
- 650nm wavelength emission
- 25µm emitting diameter
- High brightness and narrow emission spectrum
- Stable performance for industrial use

### Applications

- Industrial application
- Sensors

### Specifications

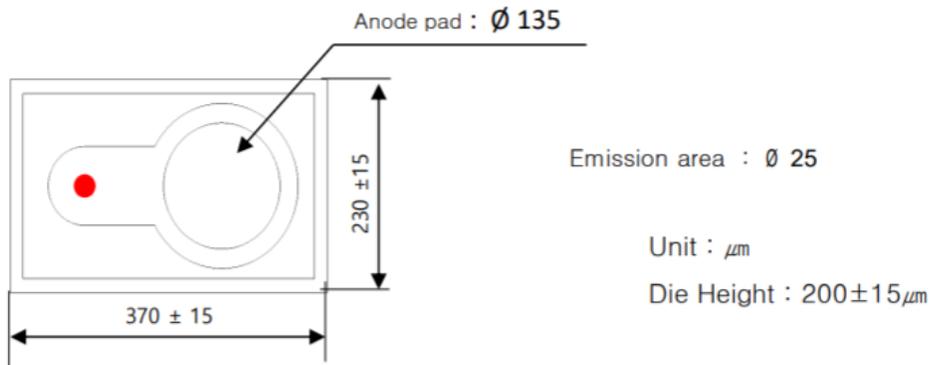
Absolute Maximum Ratings				
Parameters	Min.	Max.	Unit	Conditions
Storage temperature	-40	100	°C	
Operating temperature	-20	70	°C	
Continuous Forward Current		10	mA	
Continuous Reverse Voltage		5	V	

Electro-Optical Characteristics (T <sub>a</sub> =25°C unless otherwise stated)						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Total Radiant Flux	Φ <sub>o</sub>		0.2		mW	I <sub>f</sub> =5mA
Peak Wavelength	λ <sub>p</sub>	640	650	665	nm	I <sub>f</sub> =5mA
Beam Divergence	I <sub>R</sub>			100	nA	V <sub>R</sub> =10V
Forward Voltage	V <sub>f</sub>		2.1		V	I <sub>f</sub> =5mA

#### 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.