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RCLS40-65A25
650nm RCLED 4030 SMD Package

Description

The RCLS40-65A25 is a 650nm resonant cavity light emitting diode (RCLED) with a 25µm dot emitting area, featuring a circular inner diameter of 400µm and outer diameter of 430µm, housed in a frameless 4030 surface-mount (SMD) package. It is designed for use in consumer electronics and dot-circle applications.

Features

- 650nm RCLED
- 25µm dot emitting area
- Circle inner diameter: 400µm
- Circle outer diameter: 430µm
- Frameless 4030 SMD package

Applications

- Consumer electronics
- Dot circle optical applications

Specifications

Absolute Maximum Ratings				
Parameters	Min.	Max.	Unit	Conditions
Storage temperature	-40	100	°C	
Operating temperature	-20	70	°C	
Lead solder temperature		260	°C	5 seconds
Continuous Forward Current		10	mA	
Continuous Reverse Voltage		5	V	@ 10uA

Electro-Optical Characteristics (T_a=25°C unless otherwise stated)						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Total Radiant Flux 1	Φ_{o1}		200		uW	I_f=5mA, Reticle area
Total Radiant Flux 2	Φ_{o2}		150		uW	I_f=5mA, Dot area
Total Radiant Flux 3	Φ_{o3}		200		uW	I_f=5mA, Circle area
Peak Wavelength	λ_P	635	650	665	nm	I_f=5mA
Forward Current	I_f	0.01		10	mA	
Forward Voltage 1	V_{f1}		1.9		V	I_f=5mA, Reticle area
Forward Voltage 2	V_{f2}		2.1		V	I_f=5mA, Dot area
Forward Voltage 2	V_{f3}		1.9		V	I_f=5mA, Circle area

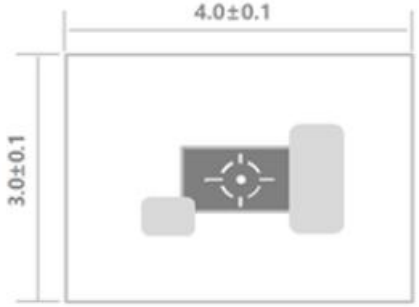
Emitting Mode

Circle

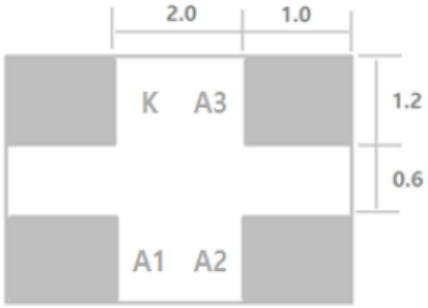
Reticle

Dot

Outline Dimensions



TOP VIEW



BOTTOM VIEW

SIDE VIEW

A1 – Reticle area
A2 – Dot area
A3 – Circle area
K - Cathode

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.