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公司授权代理销售LITE-ON: 光耦, 贴片LED灯等 进口原装,现货供应,价格优势,技术支持

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KA-4040CGCKT

4.0 x 4.0 mm Right Angle Surface Mount LED Lamp

DESCRIPTIONS

- The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode
- · Electrostatic discharge and power surge could damage the LEDs
- . It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs
- All devices, equipments and machineries must be electrically grounded

FEATURES

- · Single color
- Suitable for all SMD assembly and solder process
- · Available on tape and reel
- · Ideal for backlighting
- Package: 500 pcs / reel
- Moisture sensitivity level: 3
- RoHS compliant

APPLICATIONS

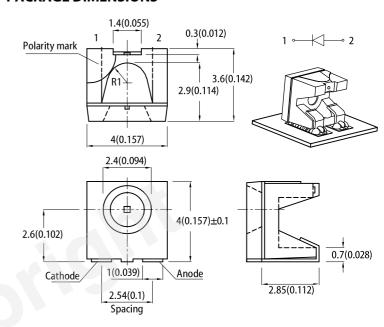
- Backlight
- · Status indicator
- · Home and smart appliances
- · Wearable and portable devices
- Healthcare applications

ATTENTION

Observe precautions for handling electrostatic discharge sensitive devices

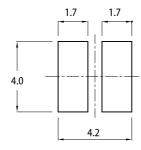


PACKAGE DIMENSIONS



RECOMMENDED SOLDERING PATTERN

(units: mm; tolerance: \pm 0.1)



- 1. All dimensions are in millimeters (inches)
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.

 3. The specifications, characteristics and technical data described in the datasheet are subject to
- change without prior notice.

 4. The device has a single mounting surface. The device must be mounted according to the specifications.

SELECTION GUIDE

Part Number	Emitting Color (Material)	Lens Type	Iv (mcd) @ 20mA [2]		Viewing Angle [1]
			Min.	Тур.	201/2
KA-4040CGCKT	Green (AlGaInP)	Water Clear	40	90	120°

Notes.

1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

2. Luminous intensity / luminous flux: +/-15%.

3. Luminous intensity value is traceable to CIE127-2007 standards.





ELECTRICAL / OPTICAL CHARACTERISTICS at T_A=25°C

Parameter	Symbol	Emitting Color	Value		Unit
Parameter		Emitting Color	Тур.	Max.	Unit
Wavelength at Peak Emission I _F = 20mA	λ_{peak}	Green	574	-	nm
Dominant Wavelength I _F = 20mA	λ _{dom} ^[1]	Green	570	-	nm
Spectral Bandwidth at 50% Φ REL MAX I _F = 20mA	Δλ	Green	20	-	nm
Capacitance	С	Green	15	-	pF
Forward Voltage I _F = 20mA	V _F ^[2]	Green	2.1	2.5	V
Reverse Current (V _R = 5V)	I _R	Green	-	10	uA

ABSOLUTE MAXIMUM RATINGS at T_A=25°C

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	75	mW
Reverse Voltage	V _R	5	V
Junction Temperature	T _j	115	°C
Operating Temperature	T _{op}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +85	°C
DC Forward Current	I _F	30	mA
Peak Forward Current	I _{FM} ^[1]	150	mA
Electrostatic Discharge Threshold (HBM)	-	3000	V

Notes:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

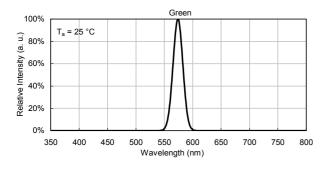


^{1.} The dominant wavelength (λd) above is the setup value of the sorting machine. (Tolerance λd:±1nm.)
2. Forward voltage: ±0.1V.
3. Wavelength value is traceable to CIE127-2007 standards.
4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

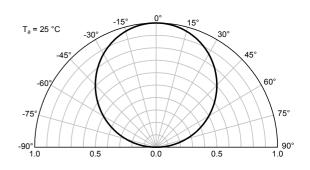


TECHNICAL DATA

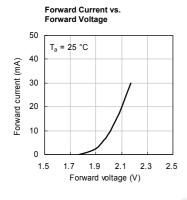
RELATIVE INTENSITY vs. WAVELENGTH

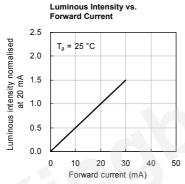


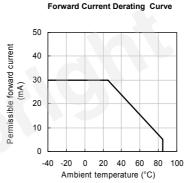
SPATIAL DISTRIBUTION

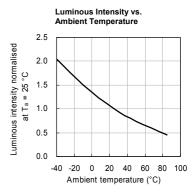


GREEN

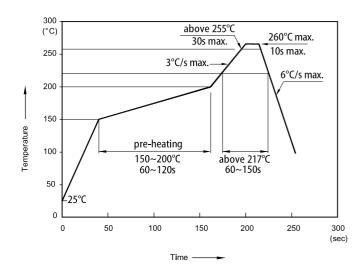








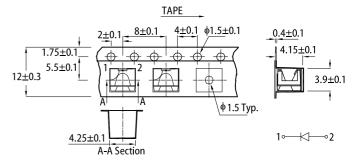
REFLOW SOLDERING PROFILE for LEAD-FREE SMD PROCESS



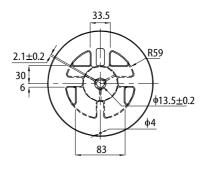
Notes

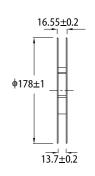
- 1. Don't cause stress to the LEDs while it is exposed to high temperature.
 2. The maximum number of reflow soldering passes is 2 times.
 3. Reflow soldering is recommended. Other soldering methods are not recommended as they might cause damage to the product

TAPE SPECIFICATIONS (units: mm)



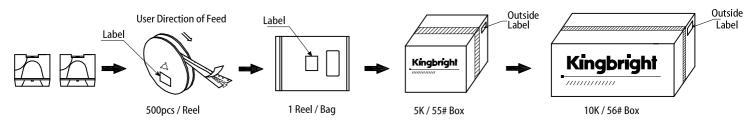
REEL DIMENSION (units: mm)







PACKING & LABEL SPECIFICATIONS





PRECAUTIONARY NOTES

- The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If
- which using the products reference in this document, please make safe the product is being operated within the environmental and electrical limits specified limits. Kingbright will not be responsible for any subsequent issues.

 The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.

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