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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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KPHM-1608SECK

1.6 x 0.8 mm SMD Chip LED Lamp

DESCRIPTIONS

- The Super Bright Orange device is made with AlGaInP (on GaAs substrate) light emitting diode chip
- · 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

- 1.6 mm x 0.8 mm SMD LED, 0.45 mm max. thickness
- · Low power consumption
- · Wide viewing angle
- · Ideal for backlight and indicator
- Package: 2000 pcs / reel
- Moisture sensitivity level: 3
- RoHS compliant

APPLICATIONS

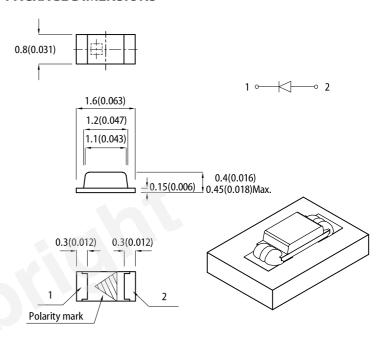
- Backlight
- · Status indicator
- · Home and smart appliances
- · Wearable and portable devices
- · Healthcare applications

ATTENTION

Observe precautions for handling electrostatic discharge sensitive devices

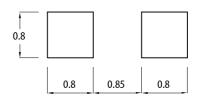


PACKAGE DIMENSIONS



RECOMMENDED SOLDERING PATTERN

(units: mm; tolerance: ± 0.1)



- 1. All dimensions are in millimeters (inches)
- 2. Tolerance is ±0.1(0.004") 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]	
rait Nullibei			Min.	Тур.	201/2	
KPHM-1608SECK	Super Bright Orange (AlGaInP)	Water Clear	120	250	4009	
			*80	*180	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%.

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





ELECTRICAL / OPTICAL CHARACTERISTICS at T_A=25°C

Parameter	Symbol	Emitting Color	Value		Unit
Parameter	Symbol	Emitting Color	Тур.	Max.	Unit
Wavelength at Peak Emission I _F = 20mA	λ_{peak}	Super Bright Orange	610	-	nm
Dominant Wavelength I _F = 20mA	λ _{dom} ^[1]	Super Bright Orange	605	-	nm
Spectral Bandwidth at 50% Φ REL MAX I _F = 20mA	Δλ	Super Bright Orange	29	-	nm
Capacitance	С	Super Bright Orange	15	-	pF
Forward Voltage I _F = 20mA	V _F ^[2]	Super Bright Orange	2.1	2.5	V
Reverse Current (V _R = 5V)	I _R	Super Bright Orange	-	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]	195	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.

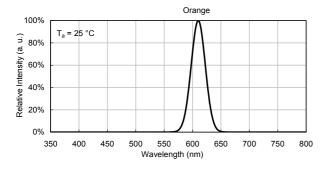


^{1.} The dominant wavelength (λd) above is the setup value of the sorting machine. (Tolerance λd:±1nm.)
2. Forward voltage: ±0.1V.
3. Wavelength value is traceable to CIE127-2007 standards.
4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe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

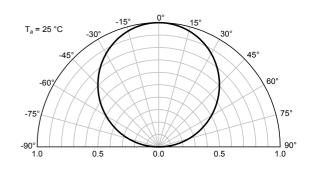


TECHNICAL DATA

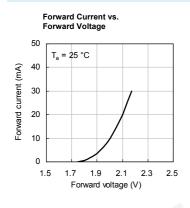
RELATIVE INTENSITY vs. WAVELENGTH

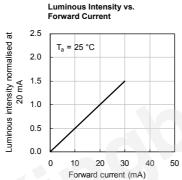


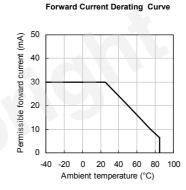
SPATIAL DISTRIBUTION

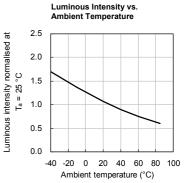


SUPER BRIGHT ORANGE

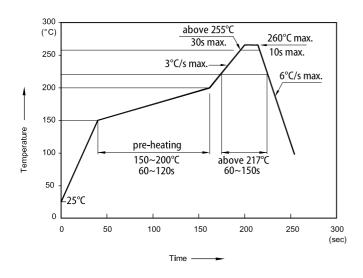








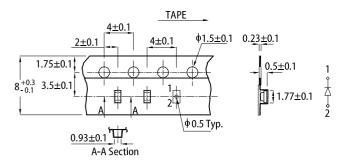
REFLOW SOLDERING PROFILE for LEAD-FREE SMD PROCESS



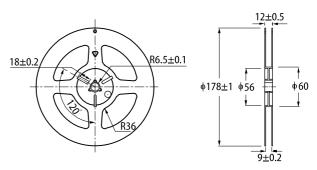
Notes

- 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)

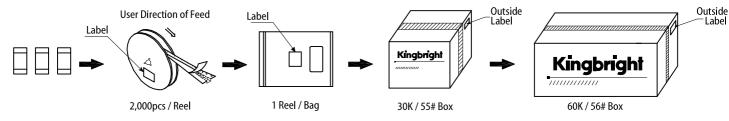


REEL DIMENSION (units: mm)





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.

 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
- customer usage exceeds the 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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