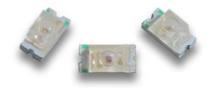


KPL-3015YC

3.0 mm x 1.5 mm SMD Chip LED Lamp



DESCRIPTION

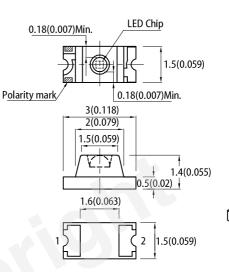
 The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode

FEATURES

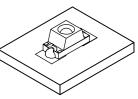
- 3.0 mm x 1.5 mm SMD LED, 1.4 mm thickness
- Low power consumption
- · Ideal for backlight and indicator
- Package: 2000 pcs / reel
- Moisture sensitivity level: 3
- RoHS compliant

APPLICATIONS

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

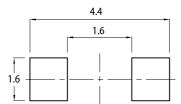


PACKAGE DIMENSIONS



RECOMMENDED SOLDERING PATTERN

(units : mm; tolerance : ± 0.1)



Notes.

1. All dimensions are in millimeters (inches)

Tolerance is ±0.2(0.008") unless otherwise noted.
 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

Deut Neurale au	Emitting Color	1 T	lv (mcd) @ 20mA ^[2]		Viewing Angle ^[1]
Part Number	(Material)	Lens Type	Min.	Тур.	201/2
KPL-3015YC	Yellow (GaAsP/GaP)	Water Clear	8	14	100°

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.

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ELECTRICAL / OPTICAL CHARACTERISTICS at T_A=25°C

Parameter	Symbol	Emitting Color	Value		Unit
Parameter			Тур.	Max.	Unit
Wavelength at Peak Emission I_F = 20mA	λ_{peak}	Yellow	590	-	nm
Dominant Wavelength I_F = 20mA	λ_{dom} ^[1]	Yellow	588	-	nm
Spectral Bandwidth at 50% Φ REL MAX I _F = 20mA	Δλ	Yellow	35	-	nm
Capacitance	С	Yellow	20	-	pF
Forward Voltage $I_F = 20 \text{mA}$	$V_F^{[2]}$	Yellow	2.1	2.5	V
Reverse Current (V _R = 5V)	I _R	Yellow	-	10	uA

Notes:

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

ABSOLUTE MAXIMUM RATINGS at T_A=25°C

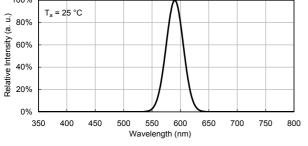
Parameter	Symbol	Value	Unit
Power Dissipation	P _D	75	mW
Reverse Voltage	V _R	5	V
Junction Temperature	Tj	110	°C
Operating Temperature	T _{op}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +85	°C
DC Forward Current	I _F	30	mA
Peak Forward Current	I _{FM} ^[1]	140	mA
Electrostatic Discharge Threshold (HBM)	-	8000	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.

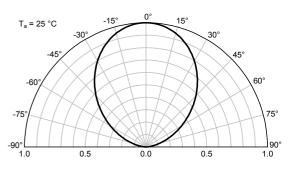
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TECHNICAL DATA

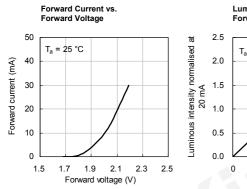
RELATIVE INTENSITY vs. WAVELENGTH Yellow 100%

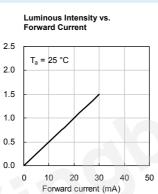


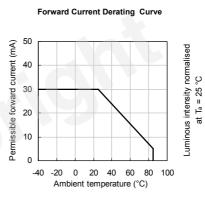
SPATIAL DISTRIBUTION



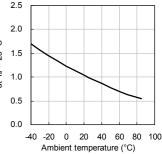
YELLOW



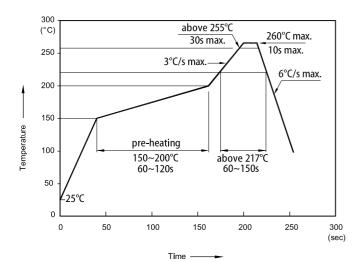




Luminous Intensity vs. Ambient Temperature

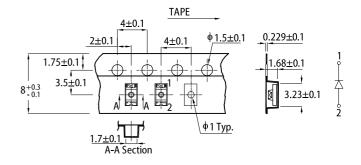


REFLOW SOLDERING PROFILE for LEAD-FREE SMD PROCESS

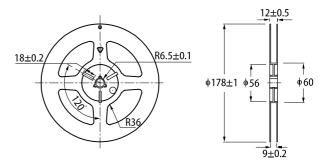


- Notes:
- Don't cause stress to the LEDs while it is exposed to high temperature.
 The maximum number of reflow soldering passes is 2 times.
 Reflow soldering is recommended. Other soldering methods are not recommended as they might cause damage to the product

TAPE SPECIFICATIONS (units : mm)



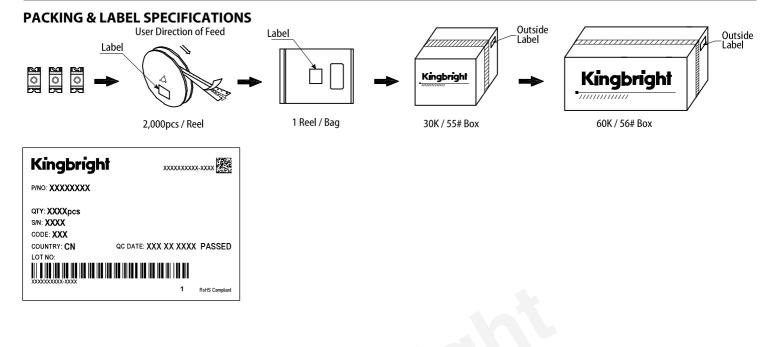
REEL DIMENSION (units : mm)



Spec No: DSAA7849 / 1203001639 Rev No: V.13B Date: 04/02/2018 @

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KPL-3015YC



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. 2
- 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
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