LINEAR HIGH POWER LED

Part Number: KAS-4805ZG24S/7

PRELIMINARY SPEC



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE

DEVICES

Features

- DIMENSION: 48mm X 5mm X 1.6mm.
- INSTANT LIGHT.
- LINEAR TYPE.
- HIGH EFFICIENCY.
- LONG OPERATING LIFE.
- LOW POWER CONSUMPTION.
- MORE ENERGY EFFICIENT THAN INCANDESCENT,
 MOST HALOGEN LAMPS, AND FLUORESCENT LAMP.
- RoHS COMPLIANT.

Description

The package containing fifteen chips is capable of providing high brightness.

Green

High thermal dissipation efficiency is achieved by incorporating aluminium as reflector and also substrate to ensure long operating life.

The Green source color devices are made with InGaAIN Vertical Light Emitting Diode.

Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Applications

Ceiling lights.

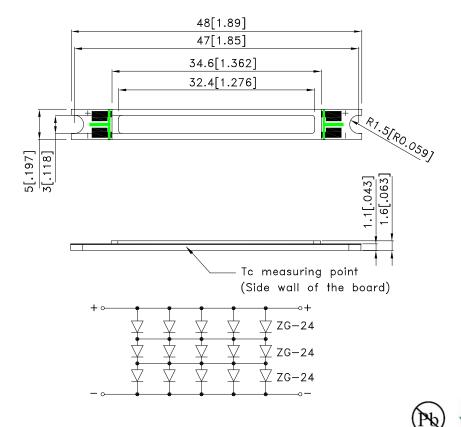
Contour lights.

Decoration lights.

General lighting

Architectural lighting.

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted. 3. Specifications are subject to change without notice.

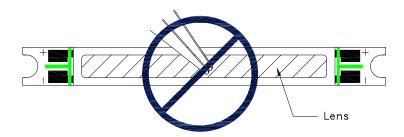
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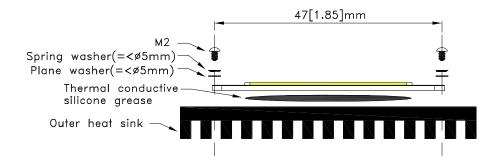
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Precautions

- 1. Do not touch the lens with any sharp object.
- 2. No stress should be applied on the lens.



- 3. Thermal grease between the strip and heat sink is recommended to fill air gaps for better thermal conductivity.
- 4. For securing the LED strip, M2 screws are recommended. The strip should not be bent or stressed in any way which could damage the internal circuit.



- 5. To prevent damages caused by electrostatic discharge (ESD), it is recommended to wear proper gear such as wristband or anti-static gloves when handling the product.
- 6. Constant current source is recommended to power the strip. When more than one strip are used, they should be connected in series if possible.
- 7. Thermal management should be taken into consideration when using the product. Maximum driving current should be reduced accordingly at higher ambient temperature to prevent overheating.
- 8. Soldering recommendations:
 - Soldering iron power should not exceed 40W, and should not be in contact with the joint for more than 3.5 secs.
 - The maximum soldering temperature should be less than 350°C.
 - Do not touch the product immediately after soldering.
 - Not reflow compatible.

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Absolute Maximum Ratings

Parameter	Symbol	Rating	Units		
Forward Current	lF	700	700 mA		
Forward Pulse Current [1]	lfP	1000	mA		
Power Dissipation	Pd	8.05 W			
LED Junction Temperature	Tj	120	°C		
Operating Temperature	Topr	-30~+100	°C		
Storage Temperature	Tstg	-40~+120	°C		
Case Temperature	Tc	100	100 °C		

Electrical / Optical Characteristics

Part Name	Device	Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
KAS-4805ZG24S/7 Greet		Forward Voltage [2]	VF	10.5	11	11.5	V	IF=700mA
		Luminous Flux [3]	Ф۷	150	180	-	lm	IF=700mA
		Wavelength at peak emission[4]	λpeak	-	515	-	nm	I=700mA
		Dominant Wavelength	λdom	-	525	-	nm	IF=700mA
		Spectral bandwidth at 50% PREL MAX	Δλ1/2	-	30	-	nm	IF=700mA
		Temperature coefficient of λpeak	TCλpeak	-	0.14	-	nm/°C	IF=700mA
	Green	Temperature coefficient of λdom	TCλdom	-	0.11	-	nm/°C	IF=700mA
		Temperature coefficient of Forward Voltage	ΔλVF/ΔΤ	1	-4	-	mV/°C	IF=700mA
		Thermal Resistance	Rth j-c	-	3.5	-	°C/W	IF=700mA
		Emission Angle	2 θ 1/2 X direction	1	130	-	0	I=700mA
			2 θ 1/2 Y direction	-	130	-	0	I=700mA

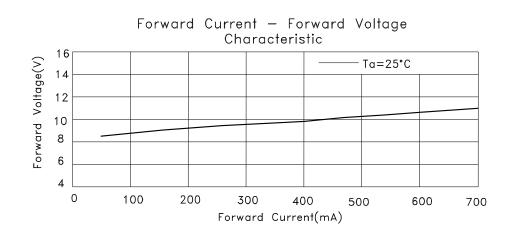
Notes:

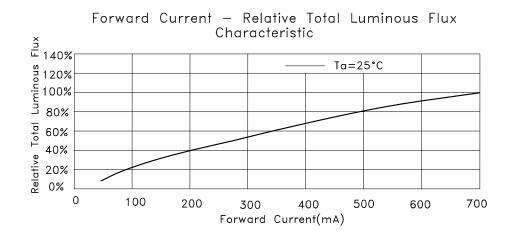
- Forward Voltage is measured with an accuracy of +/-0.1V.
 Flux is measured with an accuracy of +/-15%.
- 4. Wavelength :+/-0.1nm.

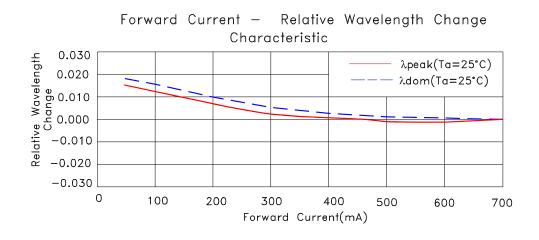
Test Item	Test Condition	
Moisture-proof Test	85°C , 85%RH for 1000 hours	

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Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.





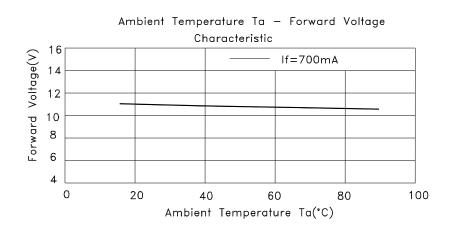


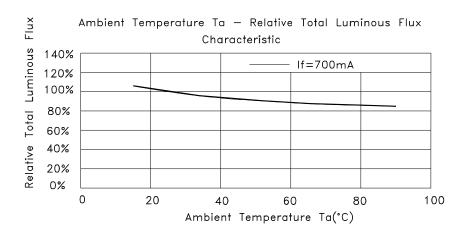
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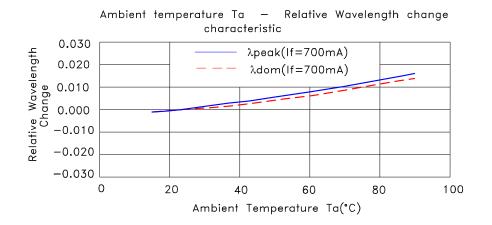
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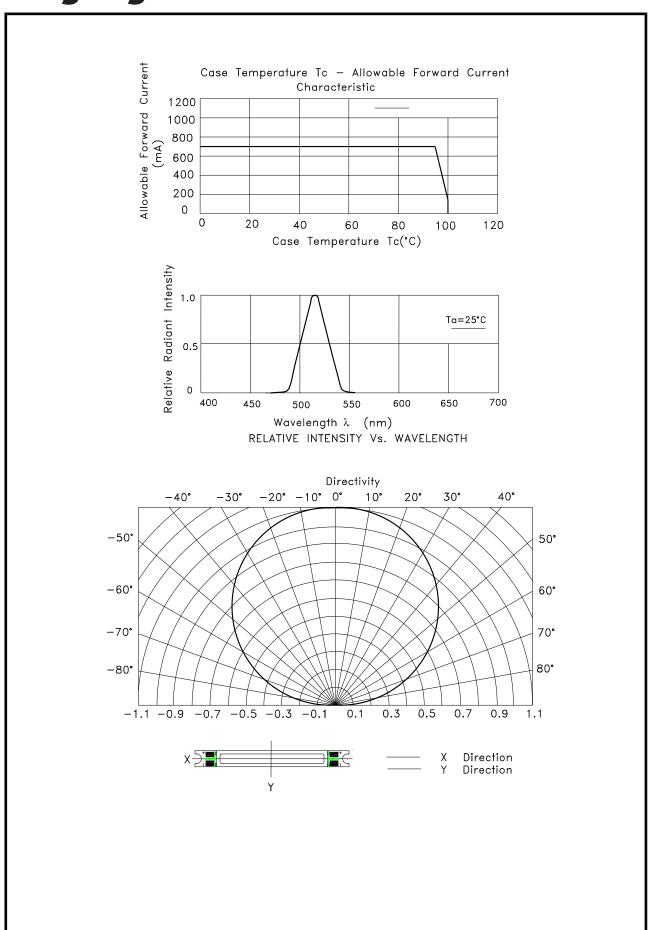






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PACKING & LABEL SPECIFICATIONS

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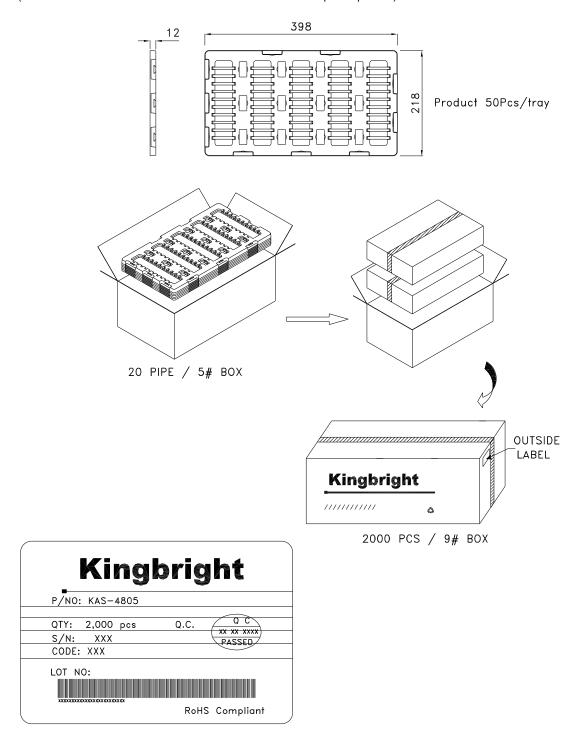
(1) Primary packing

An empty tray is placed on top of twenty-tier tray which contain 50 pieces each. Tray (Dimensions:398X218X12mm/Materials:Electrically conductive PS)

(2)second packing

A set of twenty-one trays is placed in 5# box .(Dimensions of box:410mmX229mmX159mm maximum of 1000 pieces per box)

An indication label which specifies product name, quantity, lot number and shipment date is attached to the outside of the 9# box. (Dimensions of box:441mmX251mmX346mm maximum of 2000 pieces per box)



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