

DATA SHEET

Order code	Manufacturer code	Description
72-8397	KP-2012VGC-A	KP-2012VGC-A RL2000 LED 0805 GRN 180MCD
72-8399	72-8397	KP-2012VGC-A LED 0805 GRN 180MCD RC

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The enclosed information is believed to be correct, Information may change ±without noticeqdue to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 20/02/2007

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2.0x1.25mm SMD CHIP LED LAMP

PRELIMINARY SPEC



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Part Number: KP-2012VGC-A

GREEN

Features

- •2.0mmx1.25mm SMT LED,1.1mm THICKNESS.
- •LOW POWER CONSUMPTION.
- •WIDE VIEWING ANGLE.
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- •VARIOUS COLORS AND LENS TYPES AVAILABLE.
- ●PACKAGE: 2000PCS / REEL.
- •MOISTURE SENSITIVITY LEVEL: LEVEL 3.
- •RoHS COMPLIANT.

Description

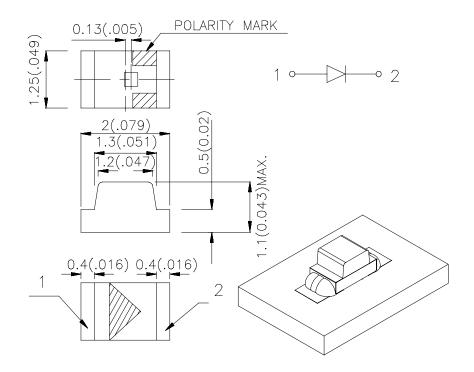
The Green source color devices are made with InGaN on G-SiC Light Emitting Diode.

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.

Package Dimensions



Notes

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.
- 4. The device has a single mounting surface. The device must be mounted according to the specifications.





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APPROVED: WYNEC CHECKED: Allen Liu DRAWN: W.J.HUA

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min. Typ.		2 θ 1/2
KP-2012VGC-A	GREEN (InGaN)	WATER CLEAR	50	180	120°

1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2.Luminous Intensity / Luminous Flux: +/-15%.

Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	520		nm	IF=20mA
λD [1]	Dominant Wavelength	Green	525		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	35		nm	IF=20mA
С	Capacitance	Green	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	3.2	4.0	V	IF=20mA
lR	Reverse Current	Green		10	uA	VR = 5V

- Wavelength: +/-1nm.
 Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at Ta=25°C

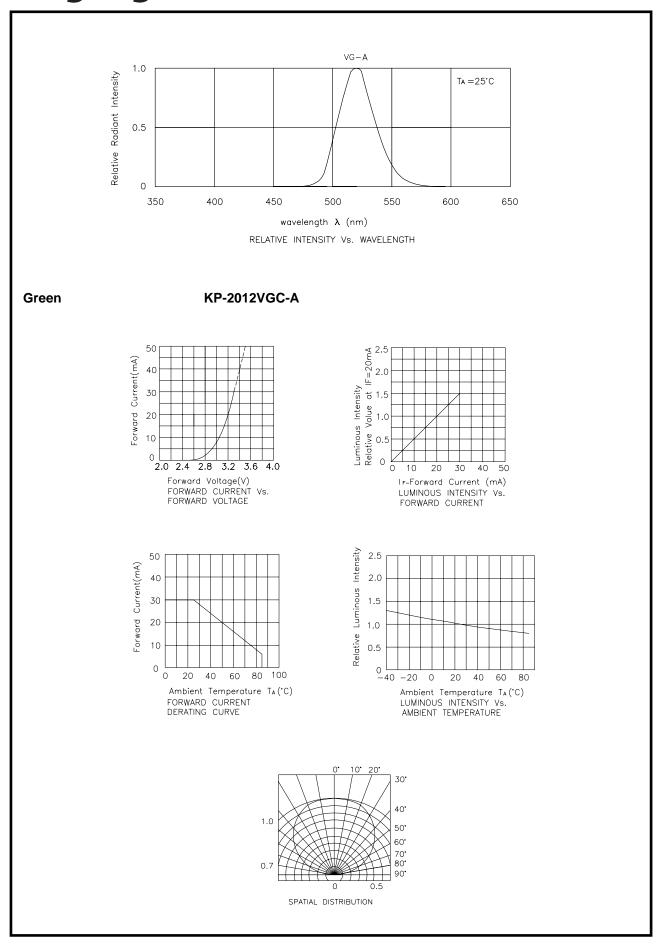
Parameter	Green	Units
Power dissipation	120	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	•

Note:

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

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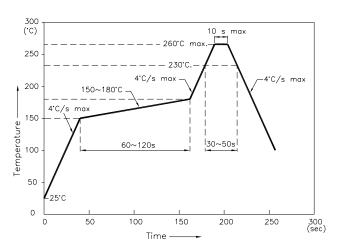


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KP-2012VGC-A

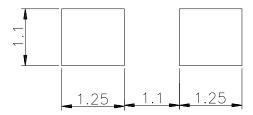
Reflow Soldering Profile For Lead-free SMT Process.



NOTES:

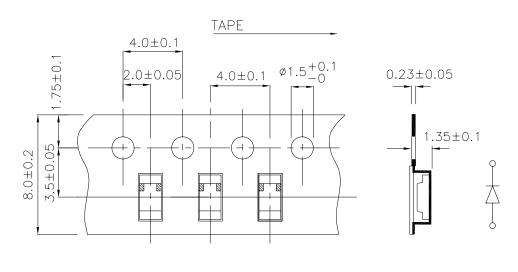
- We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
- 2.Don't cause stress to the epoxy resin while it $\,$ is exposed to high temperature.
- 3. Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units: mm; Tolerance: ±0.1)



Tape Specifications

(Units:mm)



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