

Part Number: KA-3528CGCKT-09

Green

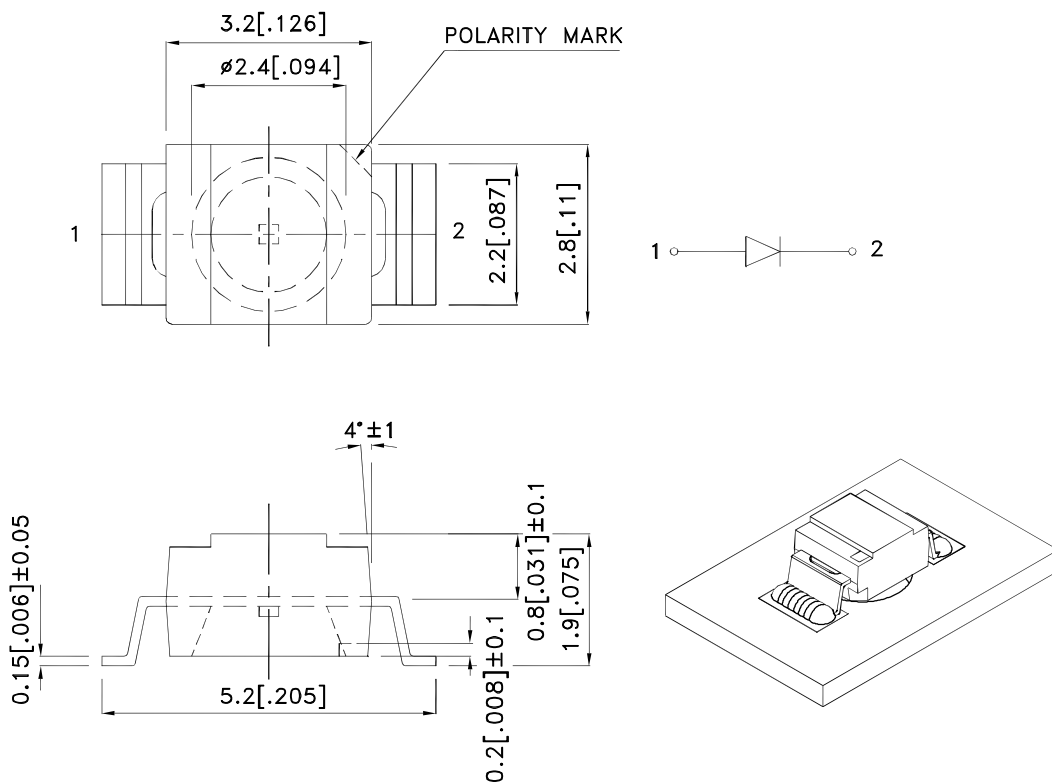
Features

- Single color.
- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 4.
- RoHS compliant.

Description

The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ " 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 No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
KA-3528CGCKT-09	Green (AlGaInP)	Water Clear	40	100	120°

Notes:

1. θ1/2 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 the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Green	574		nm	I _F =20mA
λ _D [1]	Dominant Wavelength	Green	570		nm	I _F =20mA
Δλ _{1/2}	Spectral Line Half-width	Green	20		nm	I _F =20mA
C	Capacitance	Green	15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Green	2.1	2.5	V	I _F =20mA
I _R	Reverse Current	Green		10	uA	V _R =5V

Notes:

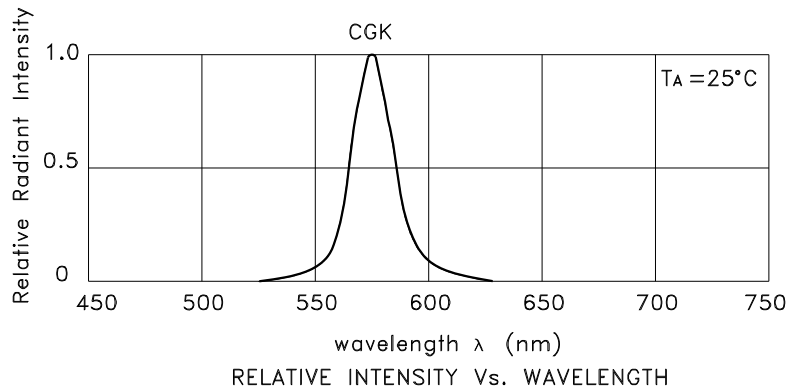
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	Green	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating Temperature	-40°C To +85°C	
Storage Temperature	-40°C To +85°C	

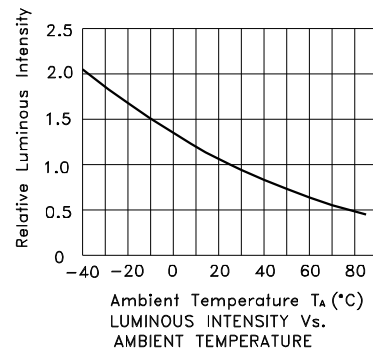
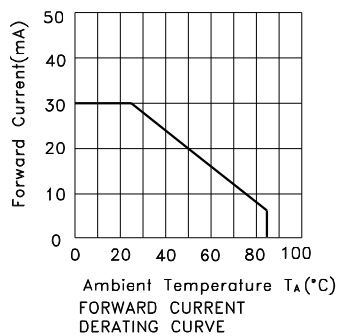
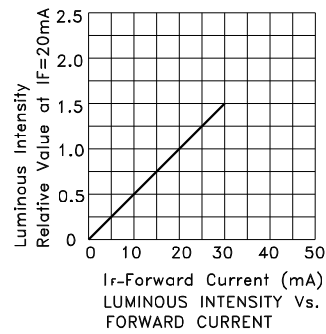
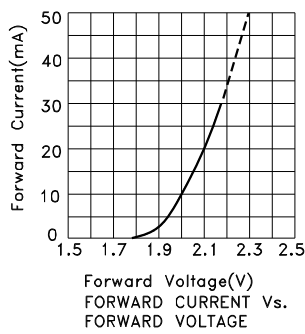
Note:

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



Green

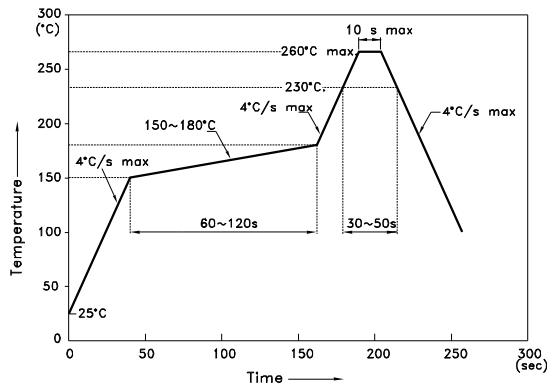
KA-3528CGCKT-09



KA-3528CGCKT-09

Reflow soldering is recommended and the soldering profile is shown below.
Other soldering methods are not recommended as they might cause damage to the product.

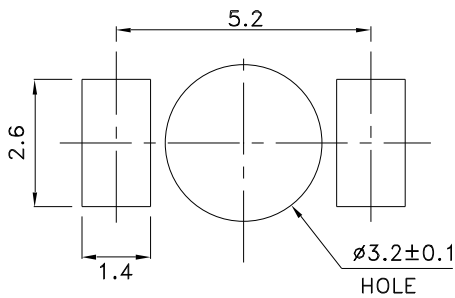
Reflow Soldering Profile For Lead-free SMT Process.



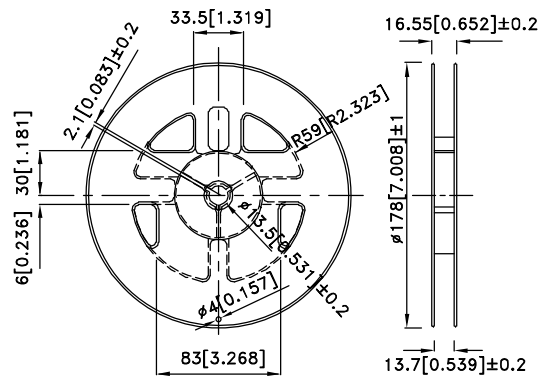
NOTES:

1. 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.

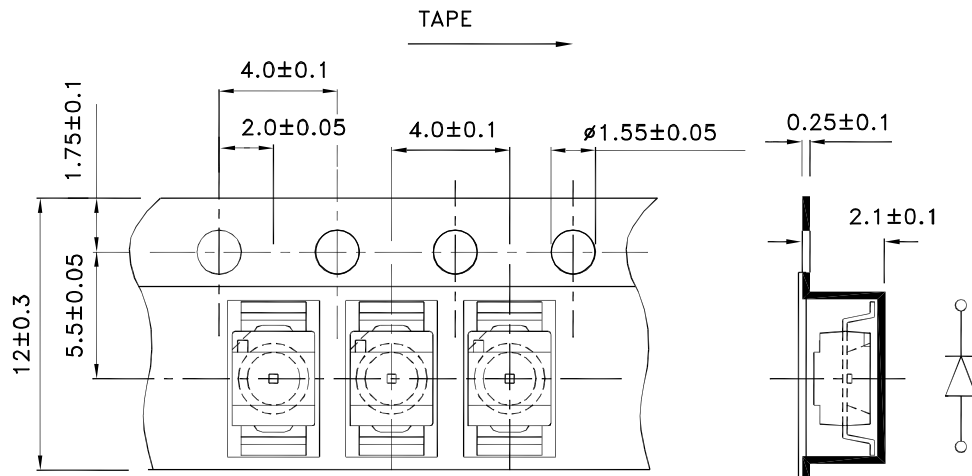
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



Reel Dimension

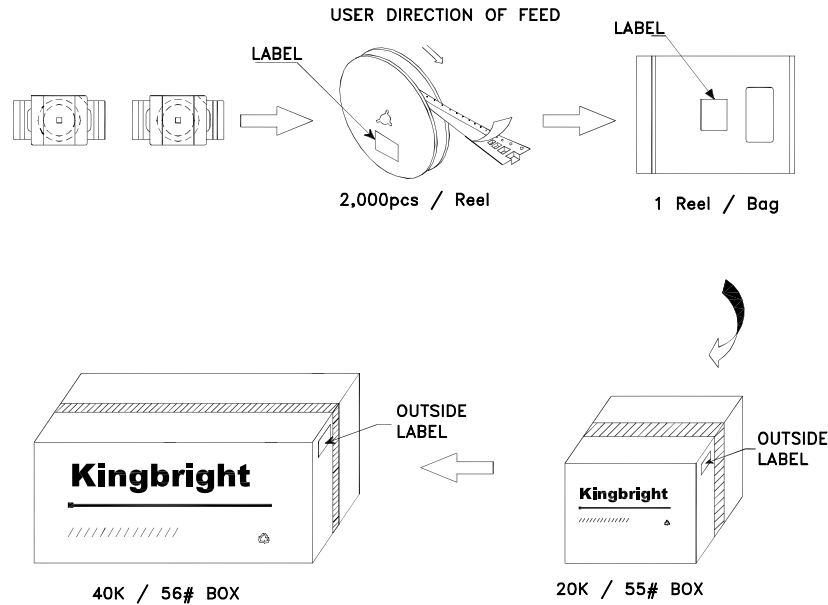



Tape Dimensions (Units : mm)



PACKING & LABEL SPECIFICATIONS

KA-3528CGCKT-09



Kingbright	
P/NO: KA-3528xxx	
QTY: 2,000 pcs	Q.C. Q C XX XX XXXX PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 XXXXXXXXXXXXX	
RoHS Compliant	

Terms and conditions for the usage of this document

- 1.The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- 2.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 customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4.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.
- 5.The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6.All design applications should refer to Kingbright application notes available at http://www.kingbright.com/application_notes

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [kingbright](#) manufacturer:

Other Similar products are found below :

[DLC-6EGW](#) [BR-8.24](#) [L-934EW/1GD](#) [AA4040PGS](#) [PSA05-11GWA](#) [BC04-11SYKWA](#) [KB-2600ID](#) [L53YC13](#) [DLC2-6GD](#) [DLC2-6SGD](#)
[SA40-19GWA](#) [WP4060VH/2ID](#) [DC10GWA](#) [DC-05YWA](#) [KA-3535SELZ4S](#) [KB-2755SYKW](#) [SA56-11GWA](#) [DE2CGKD](#) [AA4040SF4S-P22](#)
[BR9.52](#) [L-1384AL/1ID](#) [SA15-11PBWA-A](#) [KB-2855SGW](#) [BA56-11SYKWA](#) [ACSA03-41EWA-F01](#) [L-59GYC](#) [WP7113SF4BT-P22](#) [SA03-](#)
[11PBWA/A](#) [SC40-19EWA](#) [DA03-11GWA](#) [L-934EB/2ID](#) [WP132WUM/EGW](#) [WP1503CB/GD](#) [WP1384AD/GD](#) [AA3528AVUACGSK](#) [L-](#)
[964ID](#) [KPBD-3224SURKCGKC](#) [WP1533BQ/GD](#) [SA08-11SURKWA](#) [AM2520SYCK09](#) [L-138A8QMP/1ID](#) [SA23-12EWA](#) [WP934MD/2ID](#)
[KPHBM-2012ETSGTC](#) [KPTR-3216SGC](#) [WP4060VH/2GD](#) [PDC54-12SRWA](#) [WP53MGD](#) [DLC-6MBD](#) [SC40-18EWA](#)