

PRELIMINARY SPEC

Part Number: L-9294VGC-Z

Green



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Features

- High luminous white emission
- Low power consumption.
- General purpose leads.
- Reliable and rugged.
- Long life - solid state reliability.
- RoHS compliant.

Description

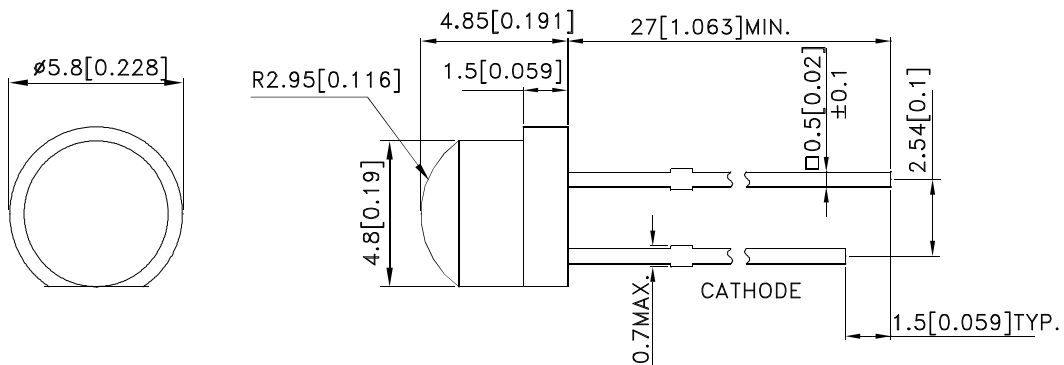
The Green source color devices are made with InGaN Light Emitting Diode.

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 $\pm 0.25 (0.01)$ unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.



Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) [2] @ 20mA | | Viewing Angle [1] |
|-------------|---------------|-------------|------------------------|------|----------------------|
| | | | Min. | Typ. | 2θ1/2 |
| L-9294VGC-Z | Green (InGaN) | WATER CLEAR | 480 | 1300 | 130° |

Notes:

1. θ1/2 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 | Typ. | Max. | Units | Test Conditions |
|-----------------------|--------------------------|--------|------|------|-------|---------------------------|
| λ_{peak} | Peak Wavelength | Green | 525 | | nm | I _F =20mA |
| λ_D [1] | Dominant Wavelength | Green | 535 | | nm | I _F =20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Green | 39 | | nm | I _F =20mA |
| C | Capacitance | Green | 65 | | pF | V _F =0V;f=1MHz |
| V _F [2] | Forward Voltage | Green | 3.2 | 3.7 | V | I _F =20mA |
| I _R | Reverse Current | Green | | 10 | uA | V _R = 5V |

Notes:

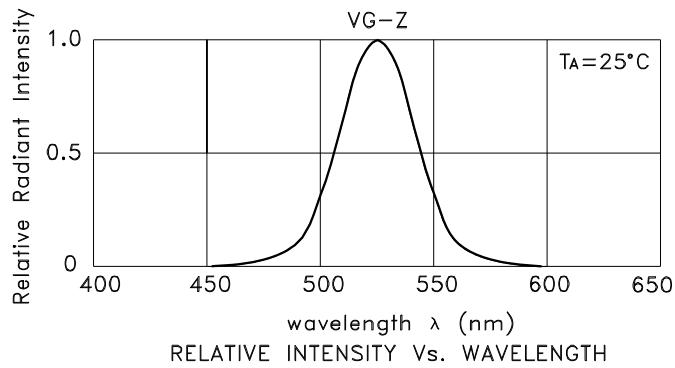
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

| Parameter | Green | Units |
|-------------------------------|---------------------|-------|
| Power dissipation | 111 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 100 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature [2] | 260°C For 3 Seconds | |
| Lead Solder Temperature [3] | 260°C For 5 Seconds | |

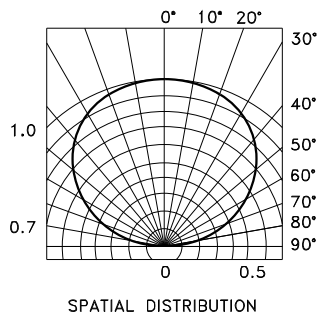
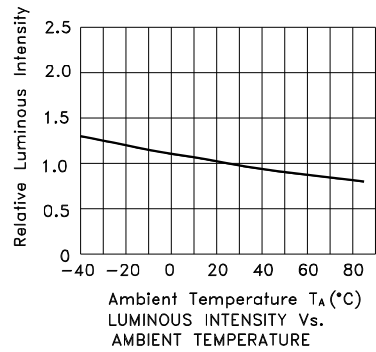
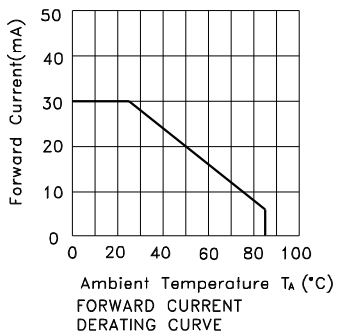
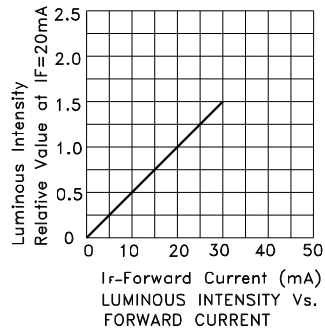
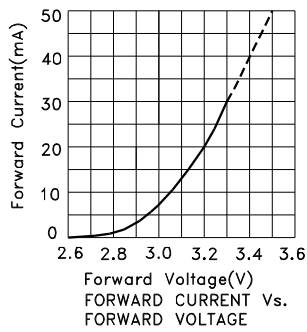
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



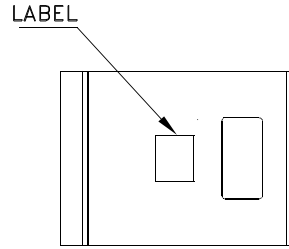
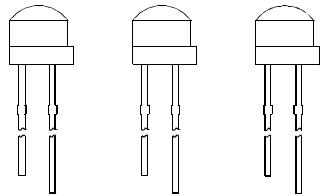
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L-9294VGC-Z



PACKING & LABEL SPECIFICATIONS

L-9294VGC-Z

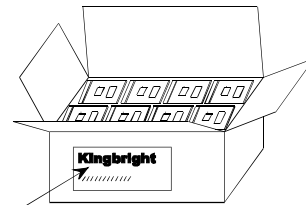


500 PCS / BAG




20K/BOX

OUTSIDE LABEL



OUTSIDE LABEL

10K/BOX

| | |
|--|--|
| <h1>Kingbright</h1> | |
| P/NO: L-9294xxx | |
| QTY: 500 pcs | Q.C. Q C XX XX XXXX PASSED |
| S/N: XXXX | |
| CODE: XXX | |
| LOT NO: | |
|  XXXXXXXXXXXX | |
| RoHS Compliant | |