

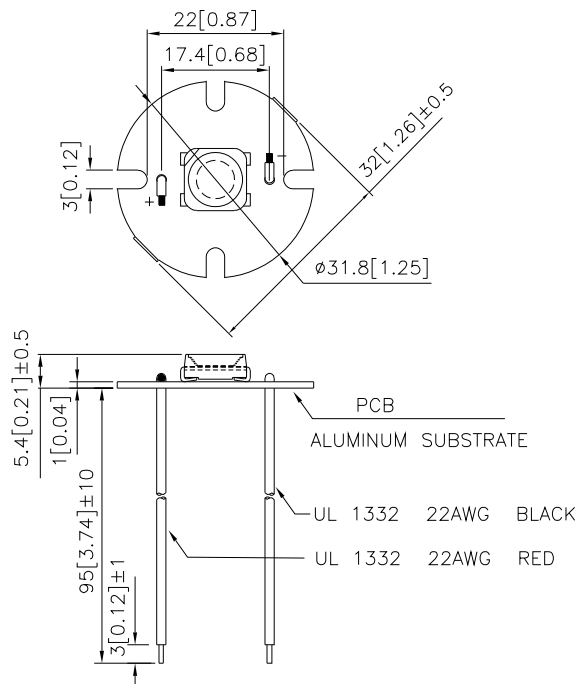
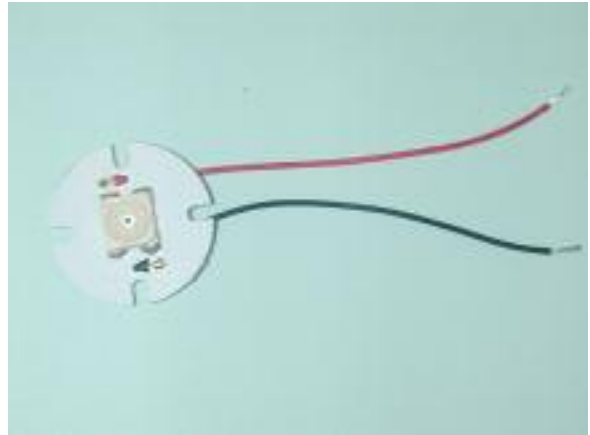
PRELIMINARY SPEC

Part Number : LT-001-04

GREEN

Features

- *RELEASING HEAT WITH ALUMINUM SUBSTRATE.
- *SINGLE COLOR.
- *HIGH LUMINANCE.
- *THE LED PART NO : KA-1010ZG9ZC
- *RoHS COMPLIANT.



Applications

- *Display backlighting where high brightness is required.
- *substitution of micro incandescent lamps.
- *portable light source (e.g. bicycle flashlight).
- *signal and symbol luminaire for orientation.
- *marker lights (e.g. steps, exit ways, etc).
- *decorative and entertainment lighting.
- *indoor and outdoor commercial and residential architectural lighting.

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.

Selection Guide

Part No.	Dice	luminous Intensity Iv(cd) @350mA		Viewing Angle[1]
		Min.	Typ.	2θ1/2
LT-001-04	GREEN(AlInGaN)	5	6	120°

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Value	Unit
Power dissipation	Pt	1.35	W
Reverse Voltage	VR	not designed for reverse operation	V
Junction temperature	TJ	110	°C
Operating Temperature	Top	-40 To +85	°C
Storage Temperature	Tstg	-40 To +85	°C
DC Forward Current	IF	400	mA
Peak Forward Current [2]	IFM	700	mA
Thermal resistance	Rth	43	°C/W

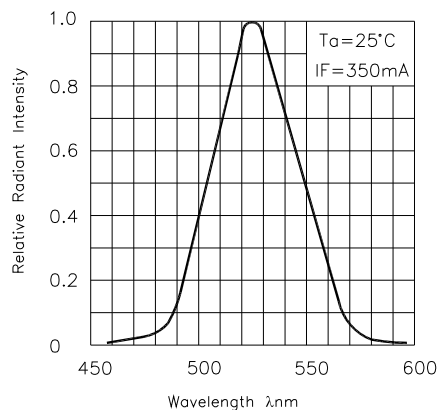
Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. 1/10 Duty Cycle, 0.1ms Pulse Width.

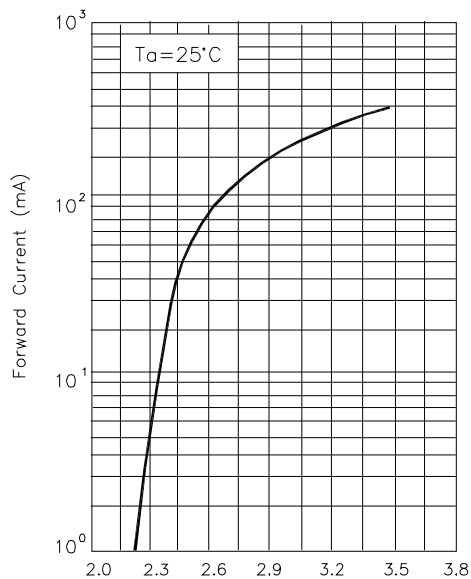
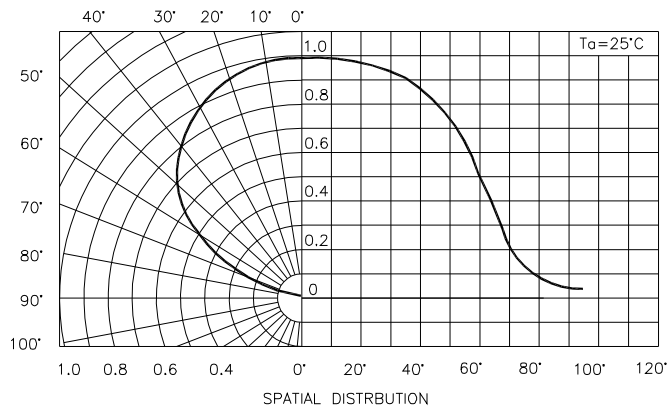
Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Value	Unit
Wavelength at peak emission IF=350mA [Typ.]	λpeak	525	nm
Dominant Wavelength IF=350mA [Typ.]	λdom	530	nm
Spectral bandwidth at 50%ΦREL MAX IF=350mA [Typ.]	Δλ	45	nm
Viewing angle at 50%ΦV [Typ.]	θ	120	°
Forward Voltage IF=350mA [Min.]	VF	2.7	V
Forward Voltage IF=350mA [Typ.]		3.3	
Forward Voltage IF=350mA [Max.]		3.8	
Reverse Current (VR=5V) [Typ.]	IR	not designed for reverse operation	μA
Temperature coefficient of λpeak IF=350mA, -10°C ≤ T ≤ 100°C [Typ.]	TCλpeak	0.14	nm/°C
Temperature coefficient of λdom IF=350mA, -10°C ≤ T ≤ 100°C [Typ.]	TCλdom	0.12	nm/°C
Temperature coefficient of VF IF=350mA, -10°C ≤ T ≤ 100°C [Typ.]	TCV	-2.0	mV/°C

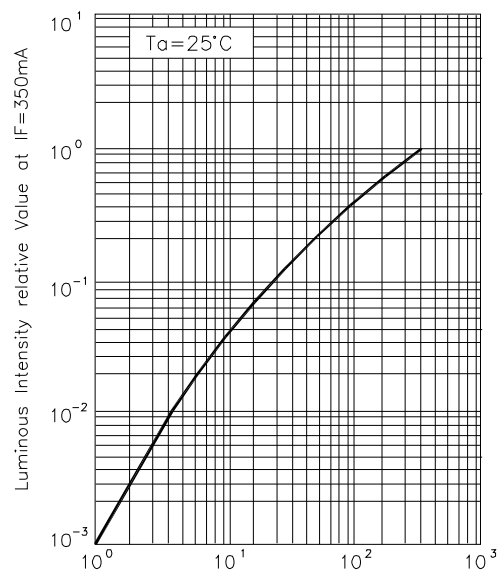
LT-001-04



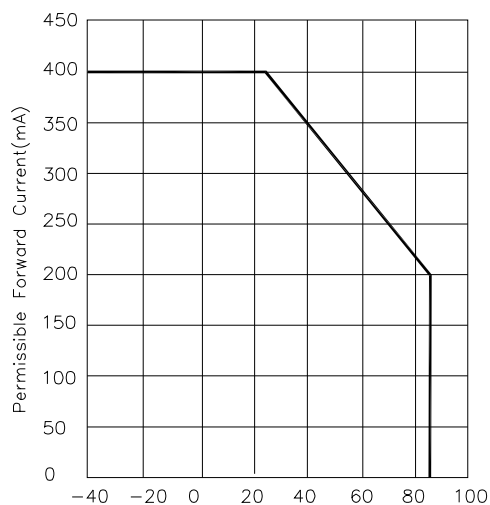
RELATIVE INTENSITY Vs. WAVELENGTH



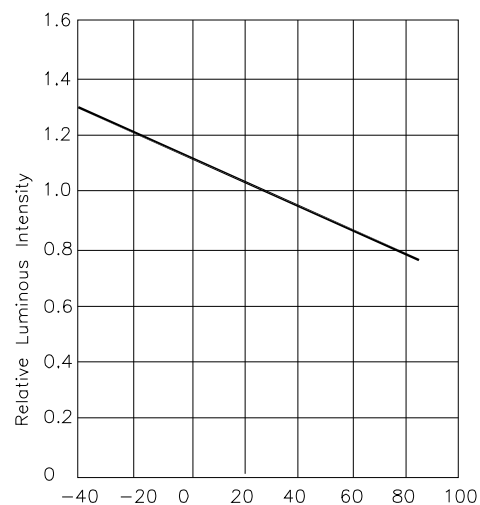
FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



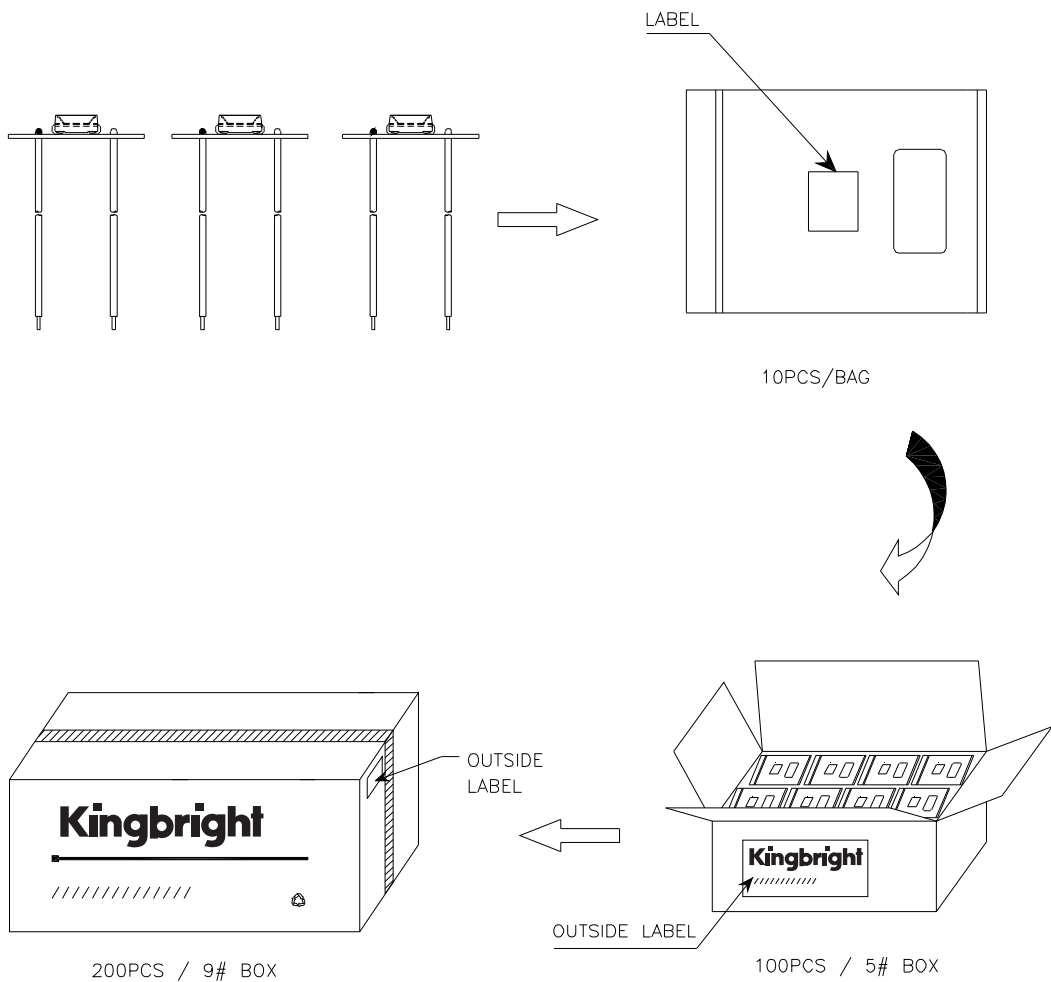
FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

PACKING & LABEL SPECIFICATIONS

LT-001-04



Kingbright	
Q.C.	
TYPE NO : LT-001XXX	QC xxx xx xxxx PASSED
QUANTITY : 10 pcs	Date
S/N : XXXX	CODE: XXX
LOT NO : 	
MADE IN CHINA	RoHS Compliant

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity/ luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: $\pm 1\text{nm}$
2. Luminous Intensity/ luminous flux: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters