Kingbright

BL0307-50-46
52 mm LED Cluster

DESCRIPTION

- The Hyper Green source color devices are made with Gallium Phosphide Green Light Emitting Diode

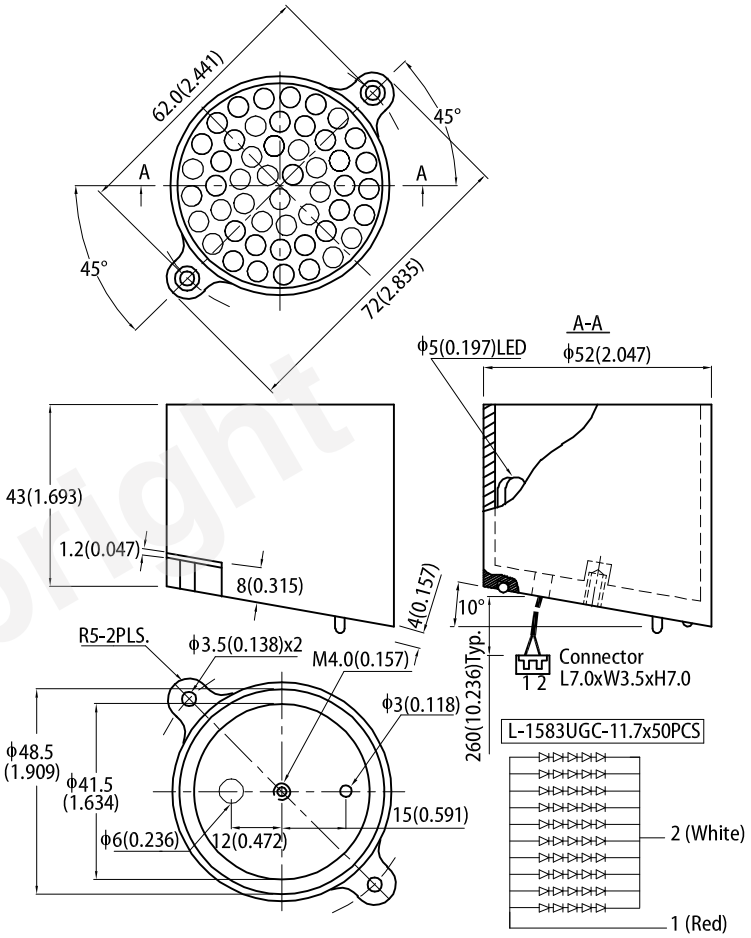
FEATURES

- Waterproof construction
- Suitable for outdoor applications, signboard or message board, etc
- RoHs compliant

APPLICATIONS

- Status indicator
- Illuminator
- Signage applications
- Decorative and entertainment lighting
- Commercial and residential architectural lighting

PACKAGE DIMENSIONS



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±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.

ABSOLUTE MAXIMUM RATINGS at T_A=25°C

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	3125	mW
DC Forward Current	I_F	250	mA
Operating Temperature	T_{op}	-40 to +70	°C
Storage Temperature	T_{stg}	-40 to +85	°C
Reverse Voltage	V_R	5	V

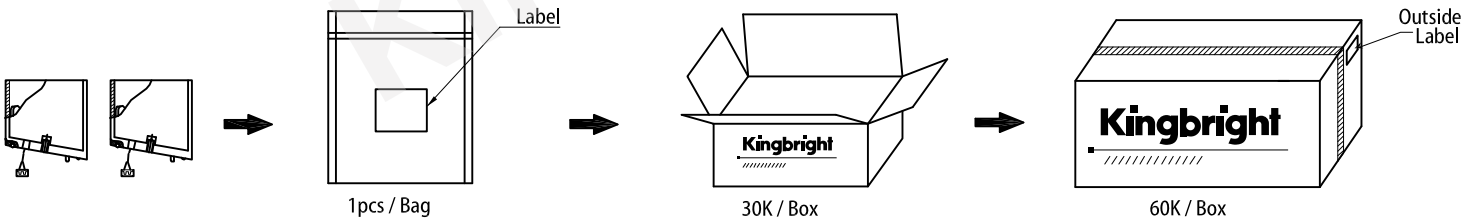
Note:
1. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

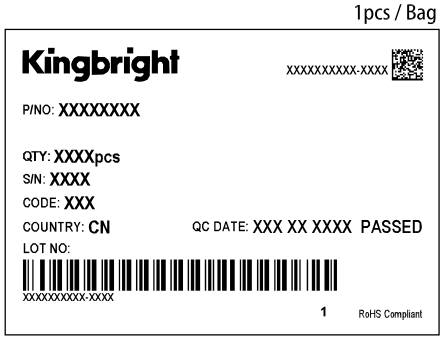
ELECTRICAL / OPTICAL CHARACTERISTICS at T_A=25°C

Parameter	Symbol	Emitting Color	Value			Unit
			Min.	Typ.	Max.	
Luminous Intensity I_F = 200mA	I_V	Hyper Green	5000	10000	-	mcd
Viewing Angle	2θ1/2	Hyper Green	-	40	-	deg
Forward Voltage I_F = 200mA	V_F	Hyper Green	-	11	12.5	V
Peak Wavelength I_F = 200mA	λ_{peak}	Hyper Green	-	562	-	nm
Dominant Wavelength I_F = 200mA	λ_{dom}	Hyper Green	-	568	-	nm
Spectral Line Half-width I_F = 200mA	Δλ 1/2	Hyper Green	-	30	-	nm
Reverse Current (V_R = 5V)	I_R	Hyper Green	-	-	100	uA

Notes:
1.Luminous intensity value is traceable to CIE127-2007 standards.
2.Wavelength value is traceable to CIE127-2007 standards.
3.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

PACKING & LABEL SPECIFICATIONS





PRECAUTIONARY NOTES

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.
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6. All design applications should refer to Kingbright application notes available at http://www.Kingbright.com/application_notes

