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ELECTRICAL / OPTICAL CHARACTERISTICS at T_A=25°C

Parameter	Symbol	Emitting Color	Value		Unit
			Тур.	Max.	
Wavelength at Peak Emission I_F = 20mA	λ_{peak}	Yellow Super Bright Green	590 565	-	nm
Dominant Wavelength I _F = 20mA	λ_{dom} ^[1]	Yellow Super Bright Green	588 568	-	nm
Spectral Bandwidth at 50% Φ REL MAX I _F = 20mA	Δλ	Yellow Super Bright Green	35 30	-	nm
Capacitance	С	Yellow Super Bright Green	20 15	-	pF
Forward Voltage $I_F = 20 \text{mA}$	V _F ^[2]	Yellow Super Bright Green	2.1 2.2	2.5 2.5	V
Reverse Current (V _R = 5V)	I _R	Yellow Super Bright Green	-	10 10	uA

Notes:

The dominant wavelength (λd) above is the setup value of the sorting machine. (Tolerance λd : ±1nm.)
Forward voltage: ±0.1V.
Wavelength value is traceable to CIE127-2007 standards.
Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

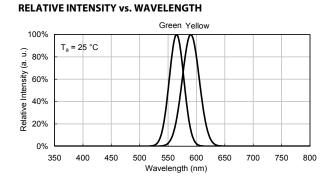
Parameter	Symbol	Va	Unit	
		Yellow	Super Bright Green	
Power Dissipation	P _D	75	62.5	mW
Reverse Voltage	V _R	5	5	v
Junction Temperature	TJ	110	110	°C
Operating Temperature	T _{op}	-40 T	°C	
Storage Temperature	T _{stg}	-40 T	°C	
DC Forward Current	I _F	30	25	mA
Peak Forward Current	ا _{FM} ^[1]	140	140	mA
Electrostatic Discharge Threshold (HBM)	-	8000	8000	V

ABSOLUTE MAXIMUM RATINGS at T_A=25°C

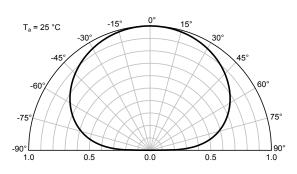
Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width. 2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

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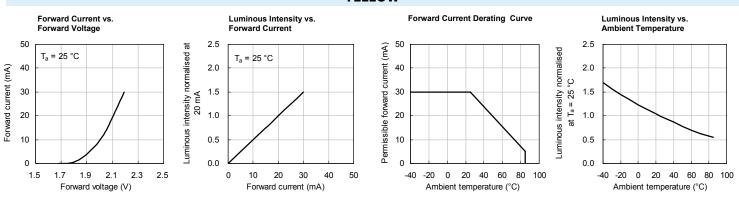
TECHNICAL DATA

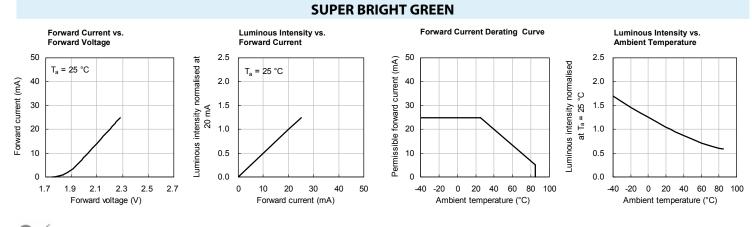


SPATIAL DISTRIBUTION



YELLOW





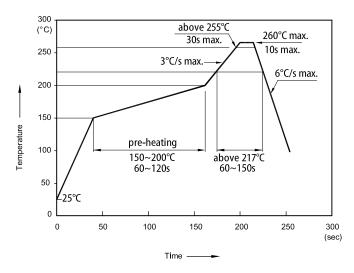
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TECHNICAL DATA

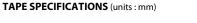
REFLOW SOLDERING PROFILE for LEAD-FREE SMD PROCESS

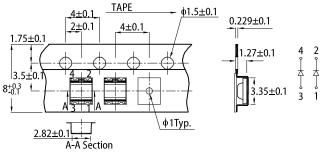


Notes

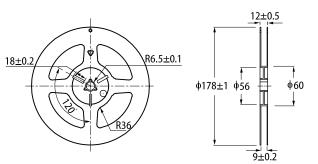
 Don't cause stress to the LEDs while it is exposed to high temperature.
The maximum number of reflow soldering passes is 2 times.
Reflow soldering is recommended. Other soldering methods are not recommended as they might cause damage to the product

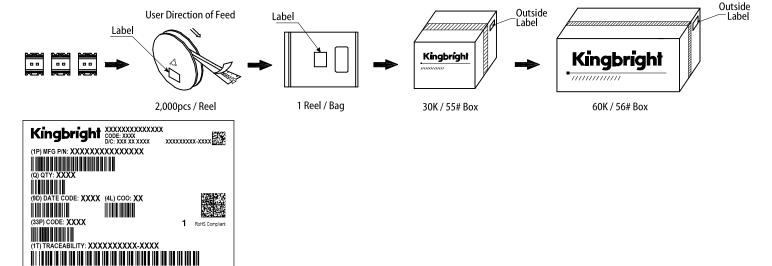
PACKING & LABEL SPECIFICATIONS





REEL DIMENSION (units : mm)





PRECAUTIONARY NOTES

- The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- 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. 2
- 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. 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
- 4. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright. All design applications should refer to Kingbright application notes available at <u>http://www.KingbrightUSA.com/Application</u> 5
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