3.0x2.0mm RIGHT ANGLE SMD LED

Part Number: KPBDA-3020SURKCGKC-PF

Hyper Red Green

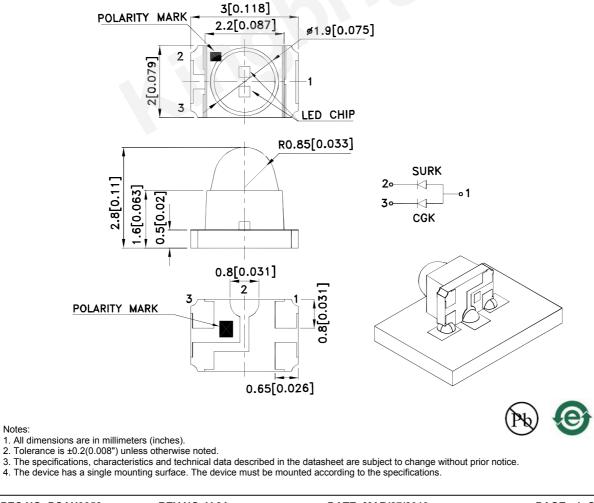
Features

- 3.0mmx2.0mm SMT LED,2.8mm thickness.
- Low power consumption.
- Various colors and lens types available.
- Ideal for back light and indicator
- Package : 2000pcs / reel.
- When soldered in the sideview configuration, the maximum
- shear tolerance of the epoxy lens is 300g.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability
- RoHS compliant.

Package Dimensions

Description

The Hyper Red source color devices are made with Al-GalnP on GaAs substrate Light Emitting Diode. The Green source color devices are made with AlGalnP on GaAs substrate Light Emitting Diode.



SPEC NO: DSAH9958 APPROVED: WYNEC REV NO: V.8A CHECKED: Allen Liu DATE: MAR/27/2013 DRAWN: Y.Liu PAGE: 1 OF 6 ERP: 1203006404

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPBDA-3020SURKCGKC-PF	Hyper Red (AlGaInP)	Water Clear	500	900	15°
			*120	*300	
	Green (AlGaInP)		120	300	
			*120	*300	

Notes

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

2. Luminous intensity/ luminous Flux: +/-15%.

*Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Hyper Red Green	645 574		nm	I⊧=20mA	
λD [1]	Dominant Wavelength	Hyper Red Green	630 570		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	Hyper Red Green	28 20		nm	I⊧=20mA	
С	Capacitance	Hyper Red Green	35 15		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	Hyper Red Green	1.95 2.1	2.5 2.5	V	IF=20mA	
lr	Reverse Current	Hyper Red Green		10 10	uA	Vr = 5V	

Notes:

1.Wavelength: +/-1nm.

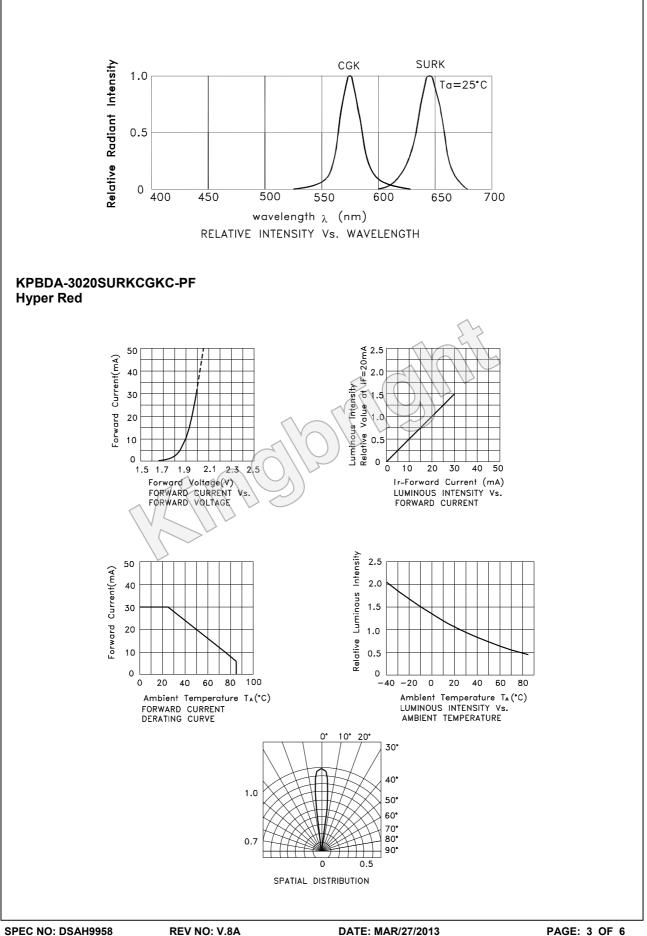
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

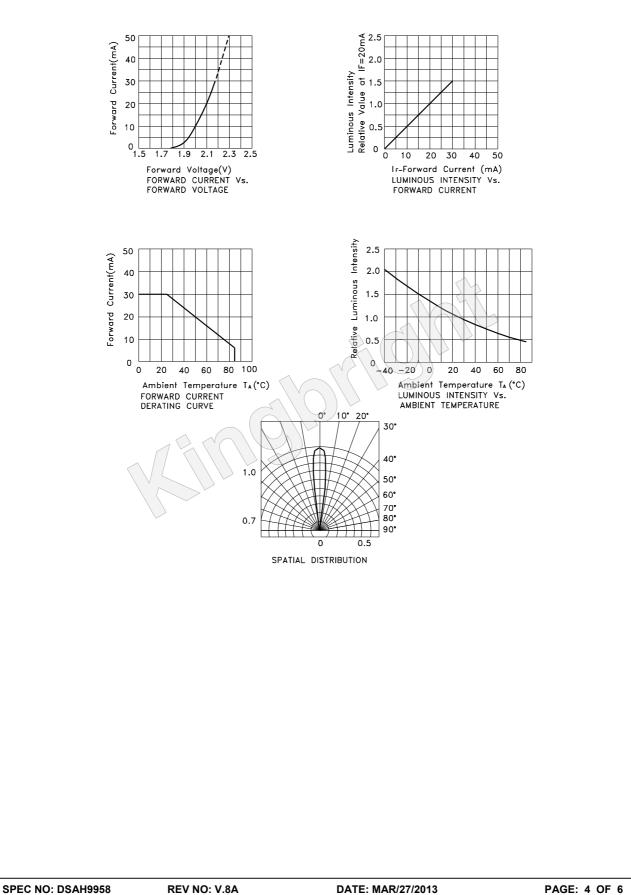
Parameter	Hyper Red	Green	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	185	150	mA		
Reverse Voltage	5				
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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

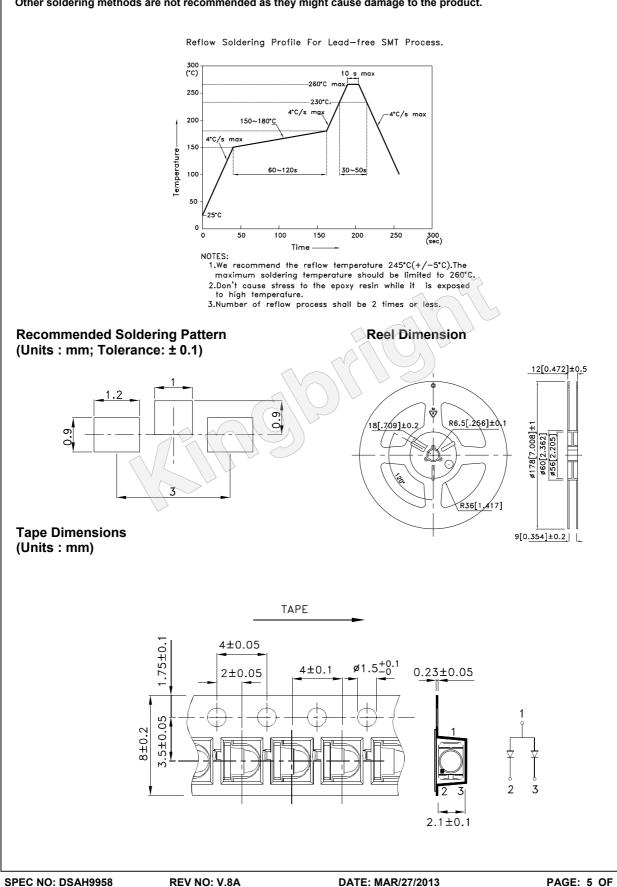


Green



KPBDA-3020SURKCGKC-PF

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.



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