3.0mmx1.0mm RIGHT ANGLE SMD CHIP LED LAMP

Part Number: KPBVA-3010SURKMGKC

Hyper Red Mega Green

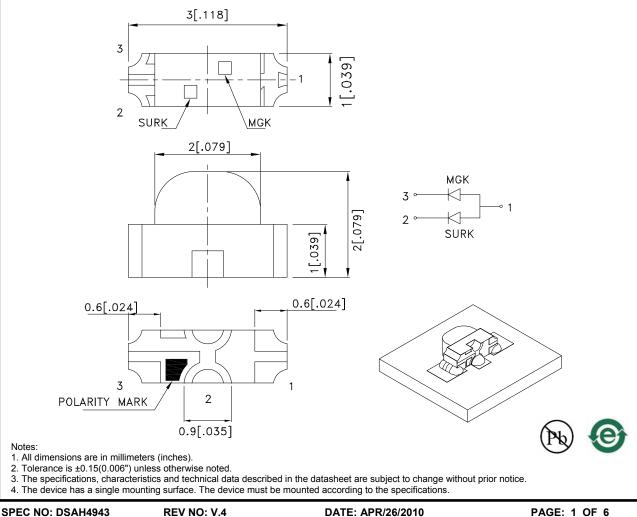
Features

- 3.0mmx1.0mm right angle SMT LED, 2.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

Package Dimensions



APPROVED: WYNEC

CHECKED: Allen Liu

DATE: APR/26/2010 DRAWN: SHANW PAGE: 1 OF 6 ERP: 1203006802

Selection Guide Part No. Dice Lens Type @ 20mA Angle [1]								
i un no.	Dice	Long Type	Min.	Тур.	201/2			
KPBVA-3010SURKMGKC	Hyper Red (AlGaInP)	WATER CLEAR	110	300	- 140°			
	Mega Green (AlGaInP)	WATER CLEAR	36	80				

Notes: 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red Mega Green	650 574		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Mega Green	630 570		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Mega Green	28 20		nm	IF=20mA
С	Capacitance	Hyper Red Mega Green	35 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red Mega Green	1.95 2.1	2.5 2.5	V	IF=20mA
lr	Reverse Current	Hyper Red Mega Green		10 10	uA	VR = 5V

Notes:

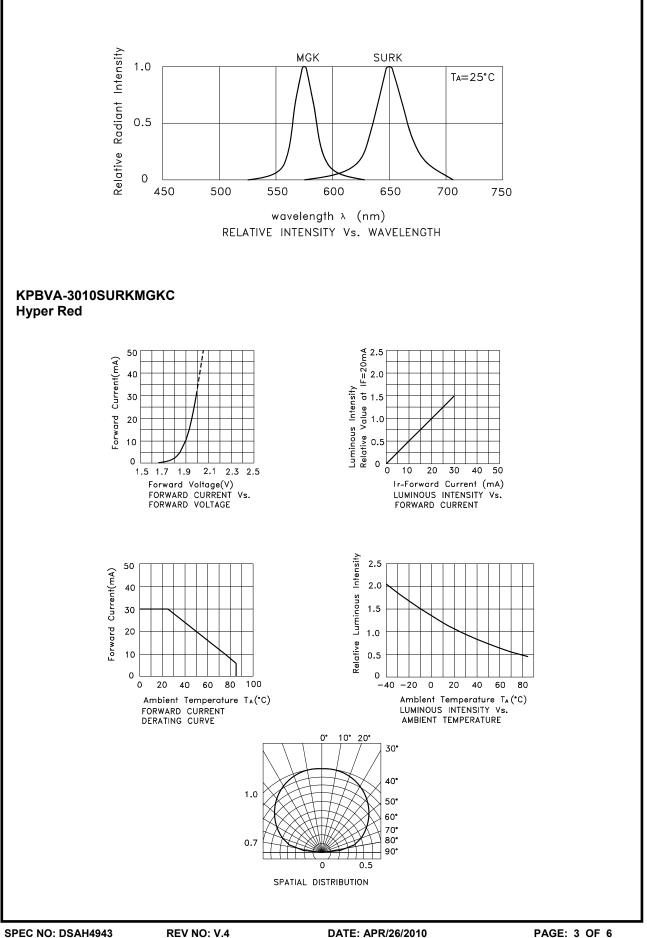
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

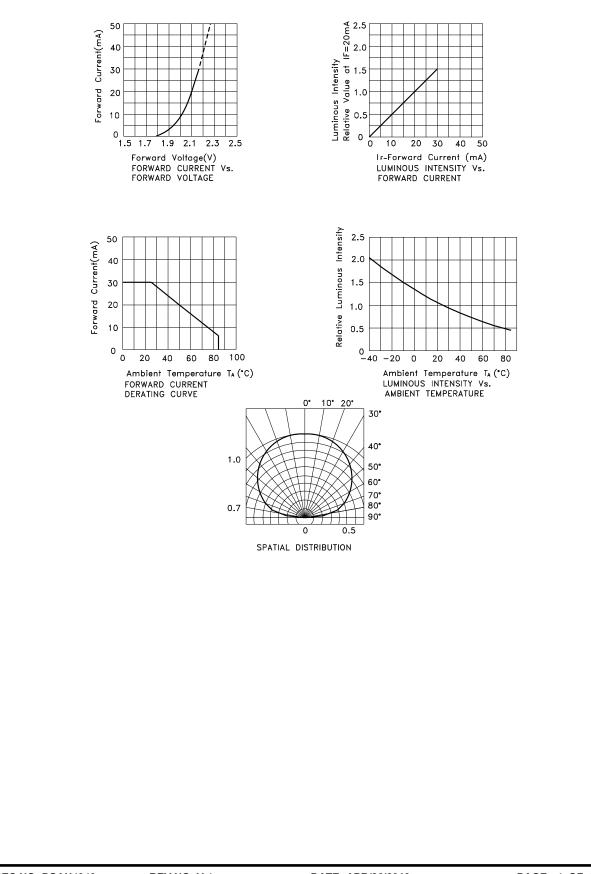
Parameter	Hyper Red	Mega Green	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	185	150	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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



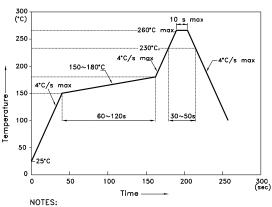
Mega Green



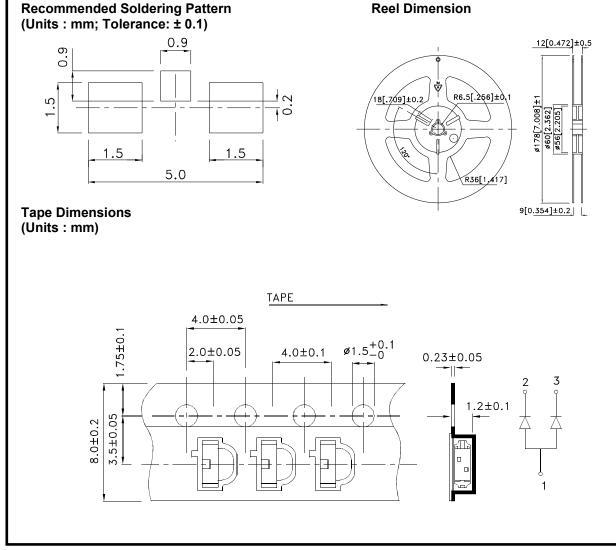
KPBVA-3010SURKMGKC

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.

Reflow Soldering Profile For Lead-free SMT Process.



NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.



REV NO: V.4 CHECKED: Allen Liu DATE: APR/26/2010 **DRAWN: SHANW**

PAGE: 5 OF 6 ERP: 1203006802

