3.5x2.8mm SURFACE MOUNT LED LAMP

PRELIMINARY SPEC

Part Number: AAA3528SURKSYKC

Hyper Red Super Bright Yellow

Features

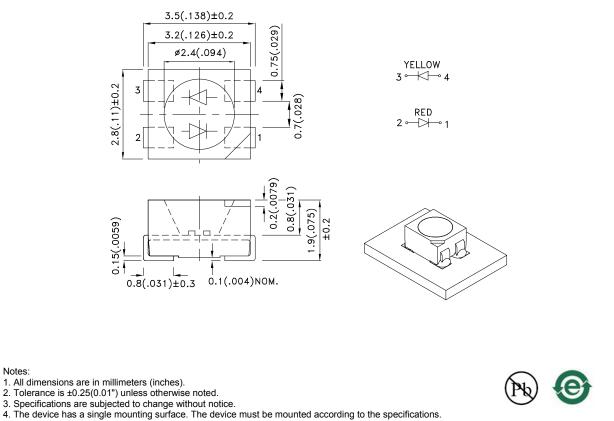
- Both chips can be controlled separately.
- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Package: 1500pcs / reel.
- Moisture sensitivity level : level 4.

• RoHS compliant.

Description

The Hyper Red source color devices are made with In-GaAIP on GaAs substrate Light Emitting Diode. The Super Bright Yellow device is made with InGaAIP (on GaAs substrate) light emitting diode chip.

Package Dimensions



Notes:

REV NO: V.5 **CHECKED: Allen Liu** DATE: JAN/06/2009 DRAWN: Y.F.Lu

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Selection Guide	Iv (mcd) [2]					
			Min.	Тур.	201/2	
AAA3528SURKSYKC	Hyper Red (InGaAIP)		70	200	- 120°	
	Super Bright Yellow (InGaAIP)	WATER CLEAR	50	150		

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline 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 Super Bright Yellow	650 590		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red Super Bright Yellow	635 590		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Super Bright Yellow	28 20		nm	IF=20mA
С	Capacitance	Hyper Red Super Bright Yellow	35 20		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red Super Bright Yellow	1.95 2	2.5 2.5	V	IF=20mA
IR	Reverse Current	Hyper Red Super Bright Yellow		10 10	uA	VR = 5V

Notes:

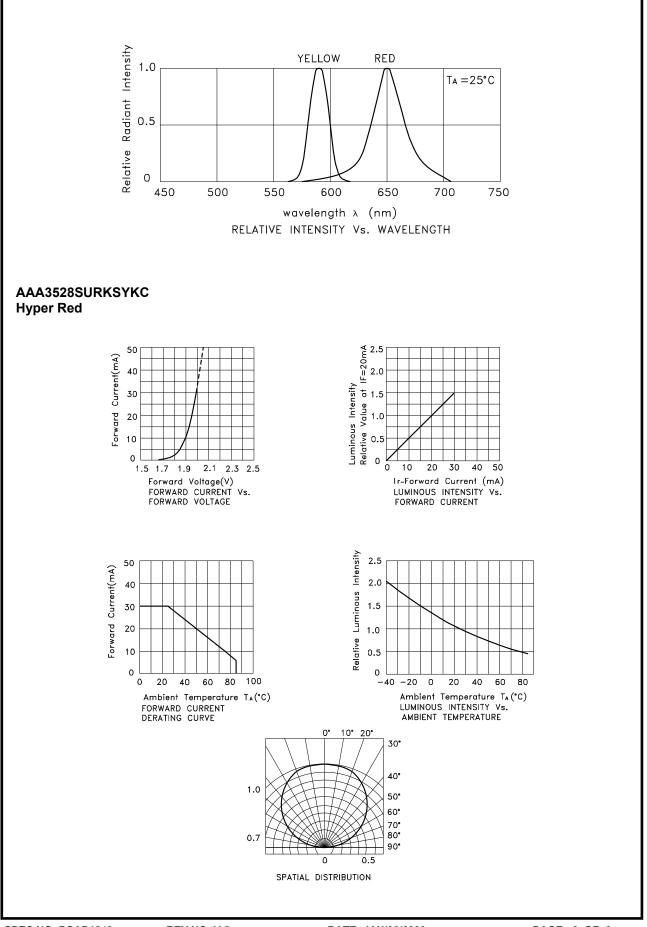
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

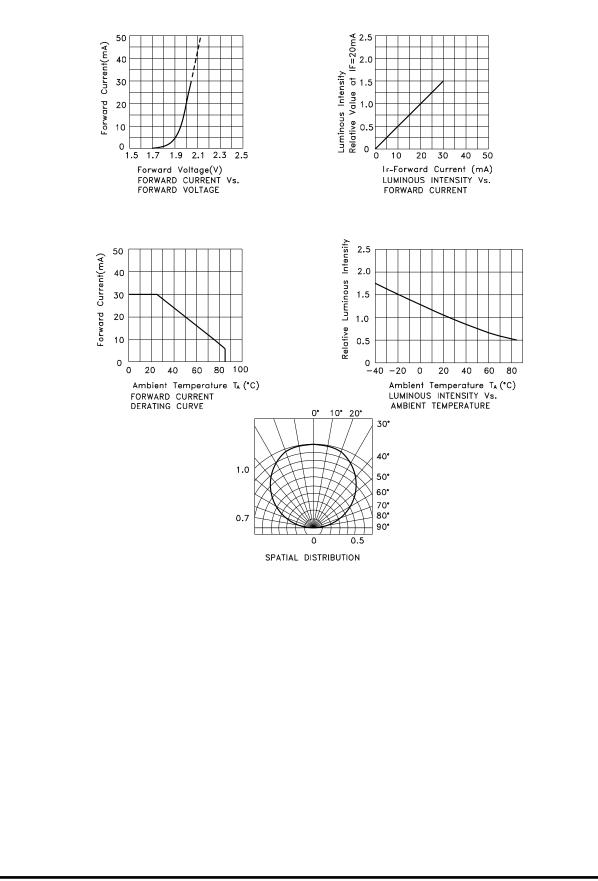
Parameter	Hyper Red	Super Bright Yellow	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	185	175	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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



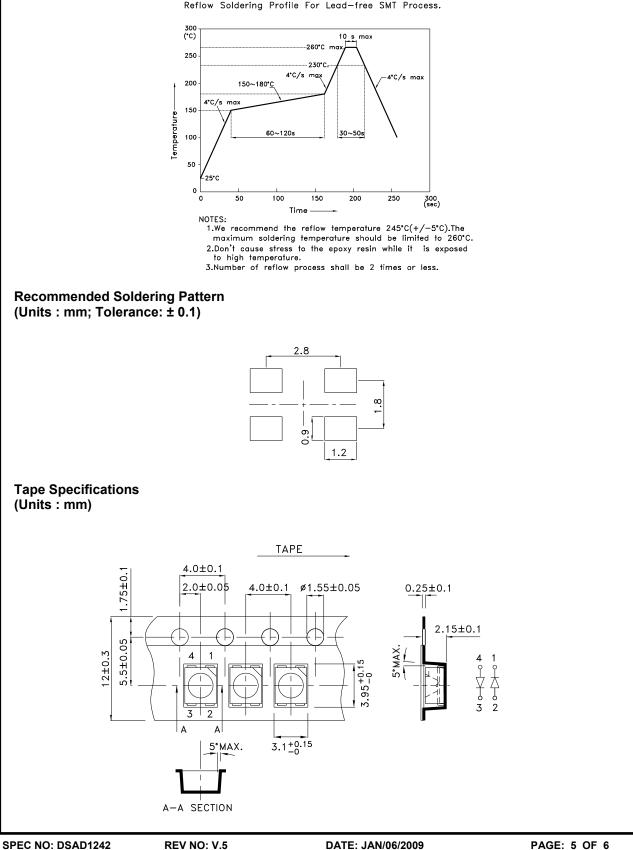
Super Bright Yellow



AAA3528SURKSYKC

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.



CHECKED: Allen Liu

DRAWN: Y.F.Lu

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