### 3.5 x2.8mm SMD CHIP LED LAMP

Part Number: APETD3528SYC/J3-PRV

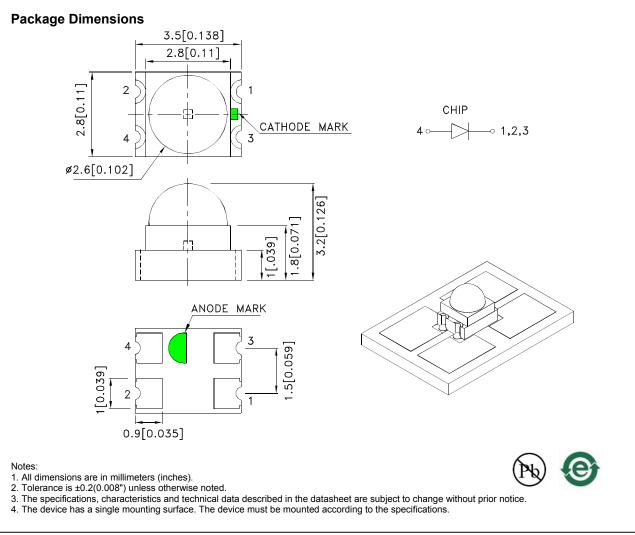
Super Bright Yellow

#### **Features**

- Single color.
- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Package: 500pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

#### Description

The Super Bright Yellow device is based on light emitting diode chip made from AlGaInP.



REV NO: V.3 CHECKED: Allen Liu DATE: MAY/18/2011 DRAWN: J.Yu PAGE: 1 OF 5 ERP: 1203009659

#### Selection Guide

			by (mg	Viewing	
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Angle [1]
		Min.		Тур.	201/2
APETD3528SYC/J3-PRV	Super Bright Yellow (AlGaInP)	Water Clear	700	1500	60°

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	590		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	589		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	I⊧=20mA
С	Capacitance	Super Bright Yellow	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow	2	2.5	V	I⊧=20mA
lr	Reverse Current	Super Bright Yellow		10	uA	Vr=5V

Notes:

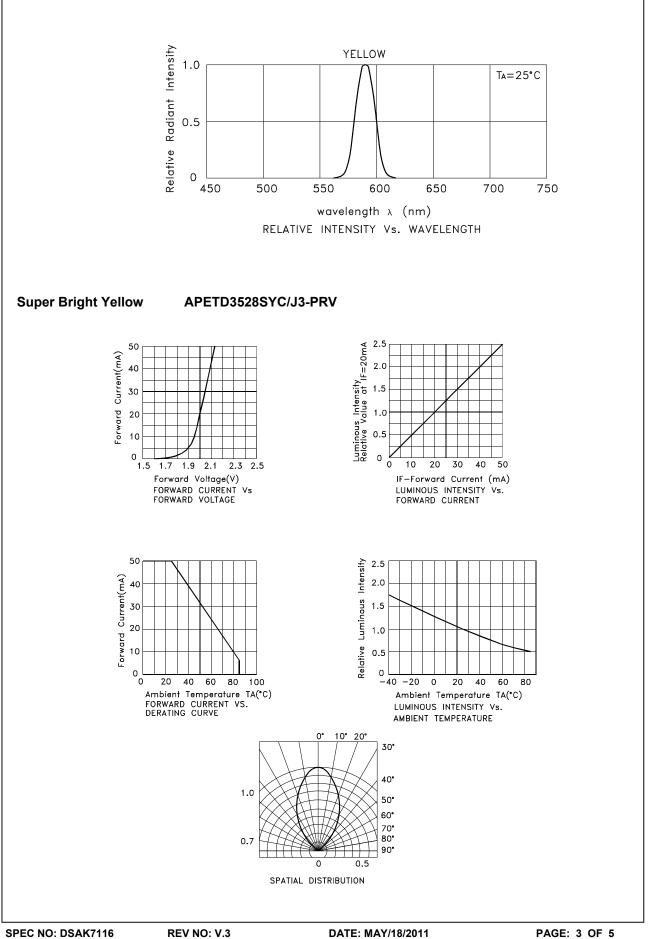
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

#### Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Yellow	Units	
Power dissipation	125	mW	
DC Forward Current	50	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

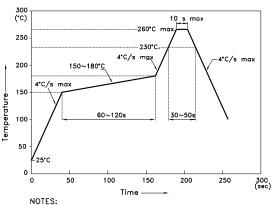
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



### APETD3528SYC/J3-PRV

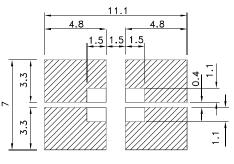
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



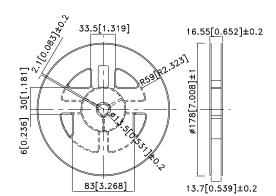
NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.



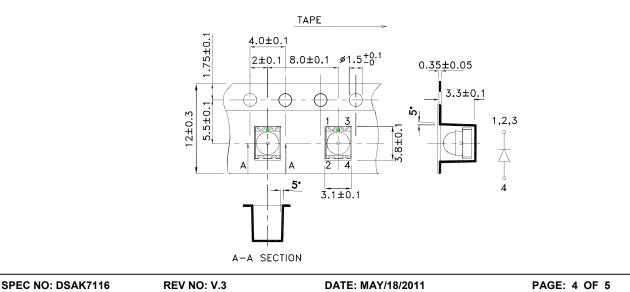


🛛 Solder resist

#### **Reel Dimension**



#### **Tape Dimensions** (Units : mm)



**APPROVED: WYNEC** 

**CHECKED: Allen Liu** 

DRAWN: J.Yu

ERP: 1203009659

