### imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



### Contact us

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

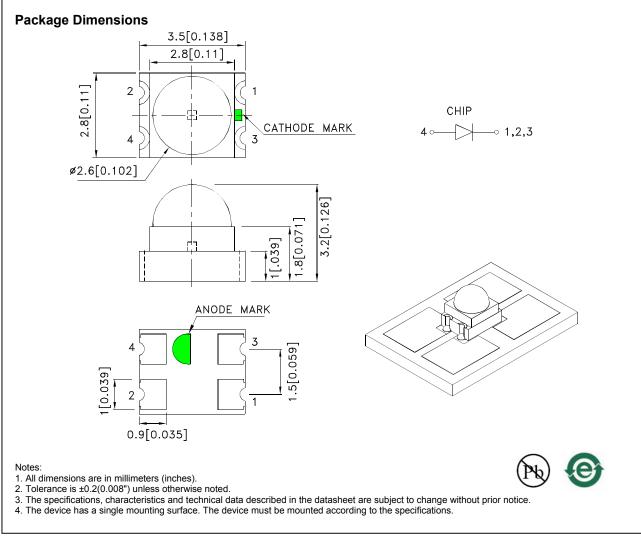
Part Number: APETD3528CGCK Green

#### **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 Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.



REV NO: V.2 **CHECKED:** Allen Liu DATE: APR/18/2011 DRAWN: J.Yu

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#### Selection Guide

Part No.	Dice	Dice Lens Type Iv (mcd) [2] @ 20mA		Viewing Angle [1]	
			Min.	Тур.	201/2
APETD3528CGCK	Green (AlGaInP)	Water Clear	80	200	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	Green	574		nm	I⊧=20mA	
λD [1]	Dominant Wavelength	Green	570		nm	I⊧=20mA	
Δλ1/2	Spectral Line Half-width	Green	20		nm	I⊧=20mA	
С	Capacitance	Green	15		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	Green	2.1	2.5	V	I⊧=20mA	
lr	Reverse Current	Green		10	uA	Vr=5V	

Notes:

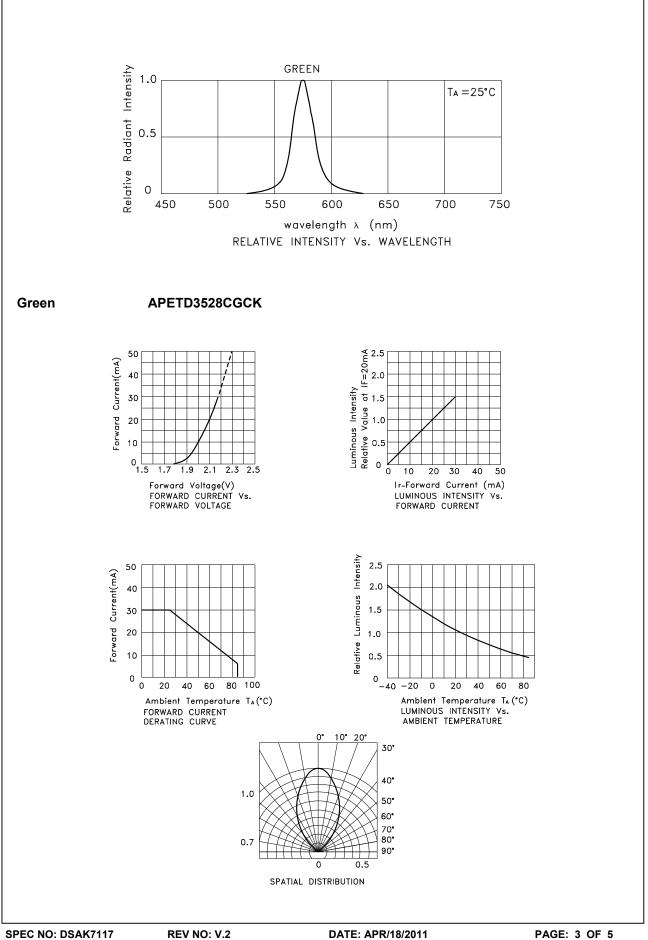
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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

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

Note:

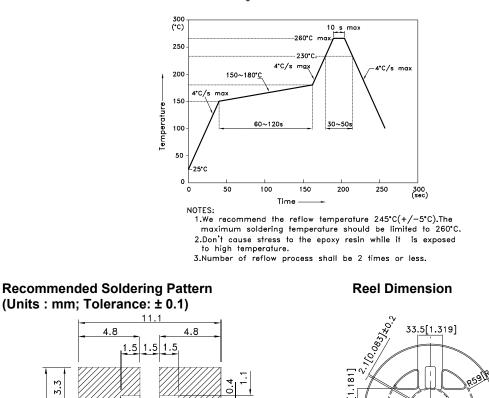
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

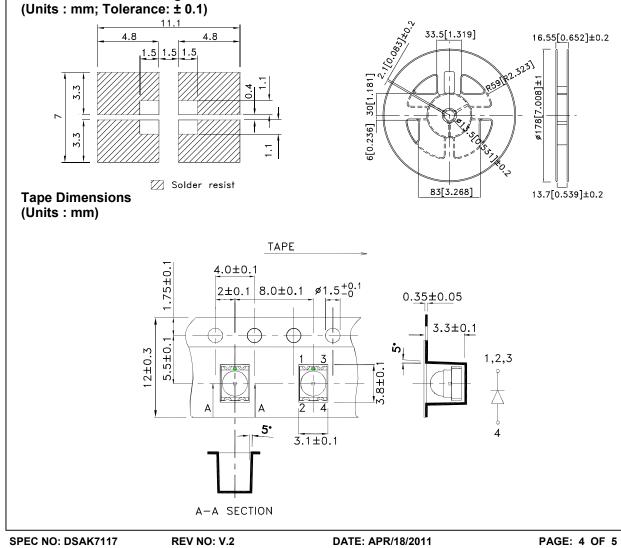


### APETD3528CGCK

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.





APPROVED: WYNEC

CHECKED: Allen Liu

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