3.5x2.8mm SURFACE MOUNT LED LAMP

Part Number: KA-3528LIT

High Efficiency Red

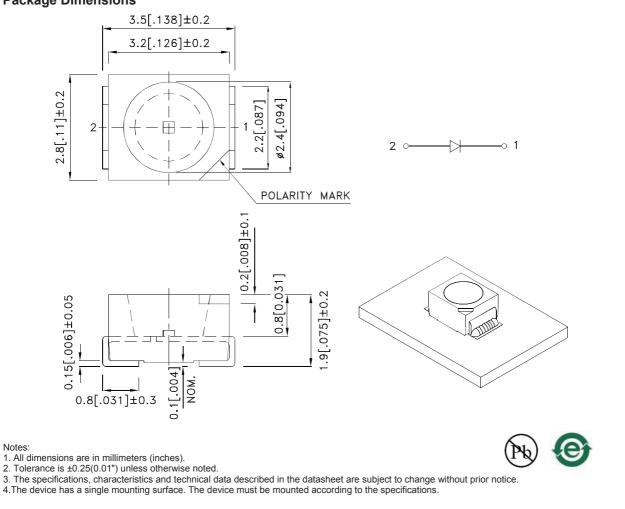
Features

- Single color.
- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 4.
- Low current IF=2mA operating.
- RoHS compliant.

Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

Package Dimensions



REV NO: V.7A CHECKED: Allen Liu DATE: OCT/21/2013 DRAWN: Q.M.Chen PAGE: 1 OF 5 ERP: 1201000294

Selection Guide

Selection Guide					
Part No.	o. Dice Lens Type	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
			Min.	Тур.	201/2
KA-3528LIT	High Efficiency Red (GaAsP/GaP)	Pod Transporant	0.8	1.2	120°
KA-3920LII		Red Transparent	*0.35	*0.8	

Notes: 1. θ1/2 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	High Efficiency Red	627		nm	IF=2mA
λD [1]	Dominant Wavelength	High Efficiency Red	617		nm	IF=2mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=2mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	High Efficiency Red	1.7	2.5	V	IF=2mA
lr	Reverse Current	High Efficiency Red		10	uA	VR=5V

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

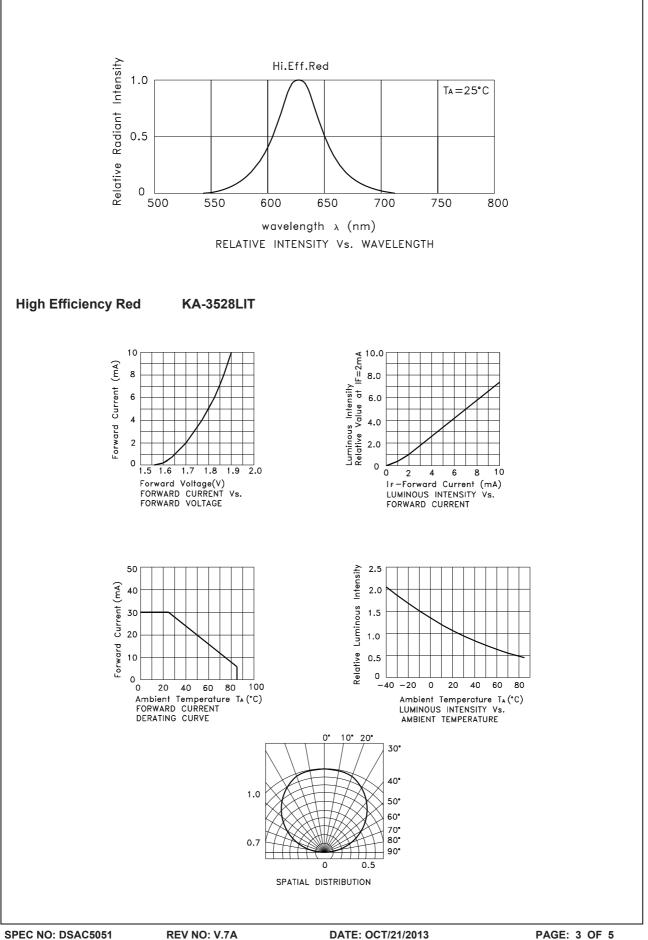
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	160	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

Note:

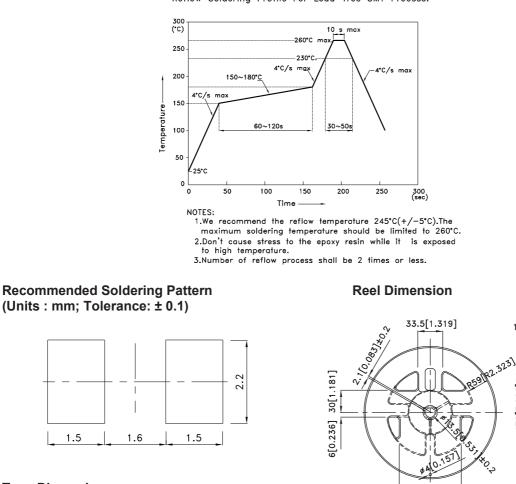
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



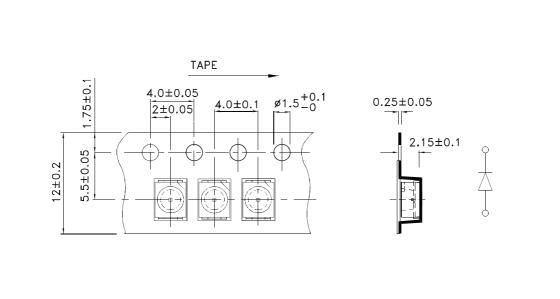
KA-3528LIT

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.





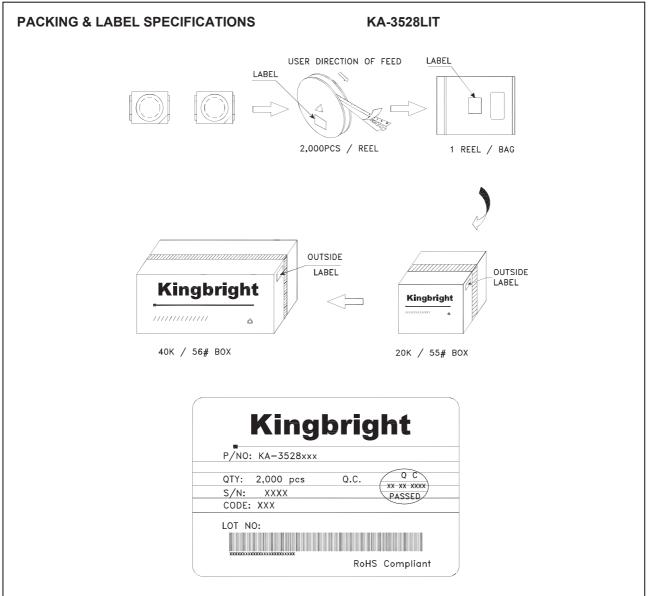


DATE: OCT/21/2013 DRAWN: Q.M.Chen 16.55[0.652]±0.2

13.7[0.539]±0.2

78[7.008]±1

83[3.268]



Terms and conditions for the usage of this document

- 1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- 3.When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.

6.All design applications should refer to Kingbright application notes available at http://www.kingbright.com/application_notes