3.5 x2.8mm SMD CHIP LED LAMP

Part Number: KPED-3528SURCK Hyper Red

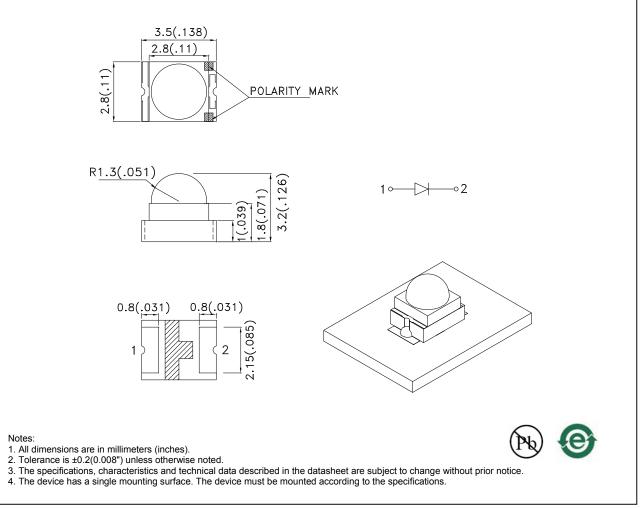
Features

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

Description

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

Package Dimensions



SPEC NO: DSAC2454 APPROVED: WYNEC REV NO: V.11A CHECKED: Allen Liu DATE: NOV/03/2011 DRAWN: J.Yu

PAGE: 1 OF 5 ERP: 1203001143

Soloction Guido

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPED-3528SURCK	Hyper Red (AlGaInP)	Weter Clear	480	800	40°
		Water Clear	*120	*250	

Notes:

1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

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	Hyper Red	650 *645			nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red	630	*630		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28			nm	IF=20mA
С	Capacitance	Hyper Red	35			pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.95		2.5	V	IF=20mA
lr	Reverse Current	Hyper Red			10	uA	Vr=5V

Notes:

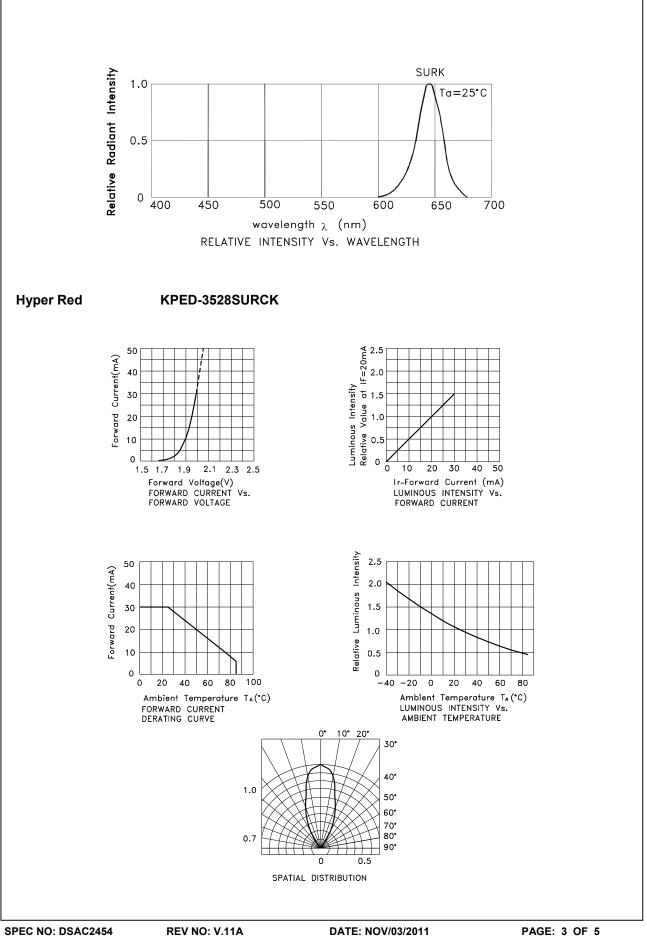
1.Wavelength: +/-1nm. 2.Forward Voltage: +/-0.1V. * Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	185	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

Note:

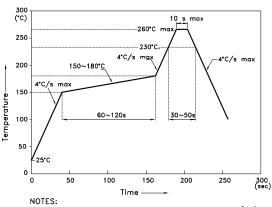
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPED-3528SURCK

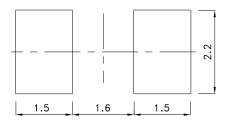
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

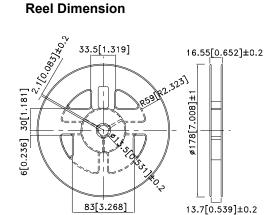
Reflow Soldering Profile For Lead-free SMT Process.

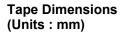


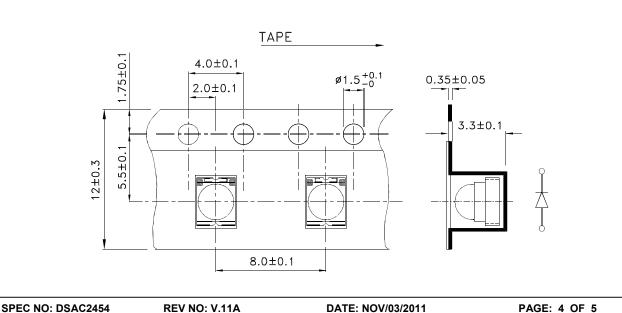
NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.











CHECKED: Allen Liu

DRAWN: J.Yu

PAGE: 4 OF 5 ERP: 1203001143

