### Soloction Guido

Part No.	Dice	Lens Type			Viewing Angle [1]
			Min. Typ.		201/2
KA-3528LSURCKT	Liver Ded (AlCalaD)	Water Clear	20	30	400 <sup>°</sup>
	Hyper Red (AlGaInP)	Water Clear	*4	*8	120°

Notes:

1.  $\theta$ 1/2 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	645		nm	I⊧=2mA
λD [1]	Dominant Wavelength	Hyper Red	630		nm	I⊧=2mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	I⊧=2mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.75	2.5	V	I⊧=2mA
lr	Reverse Current	Hyper 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.

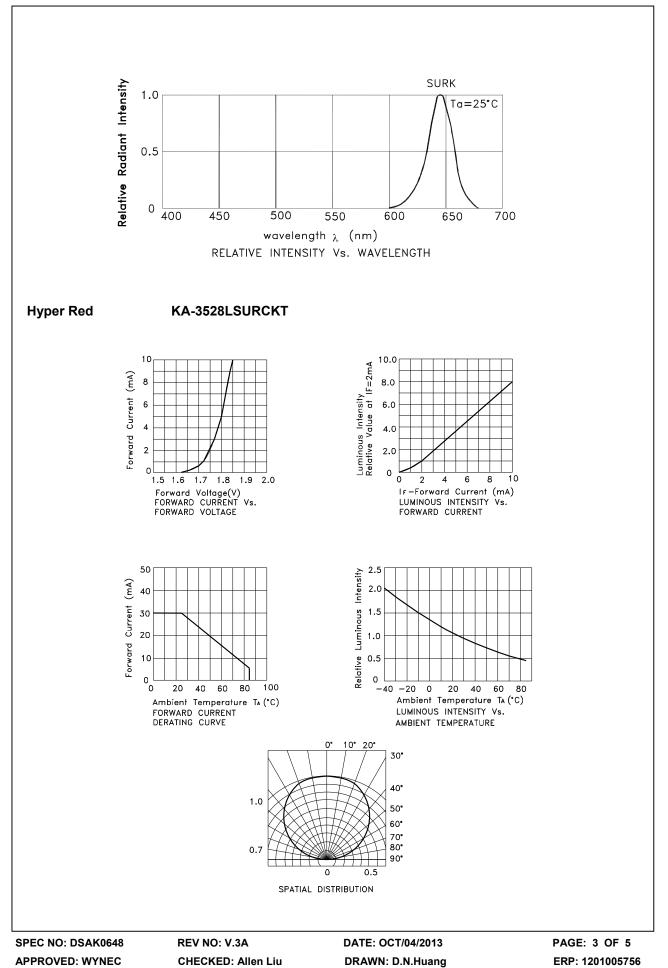
#### Absolute Maximum Ratings at TA=25°C

Parameter	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.

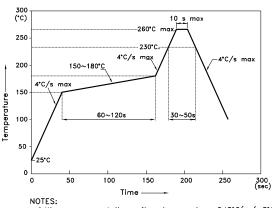
SPEC NO: DSAK0648 APPROVED: WYNEC DATE: OCT/04/2013 DRAWN: D.N.Huang



### **KA-3528LSURCKT**

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.

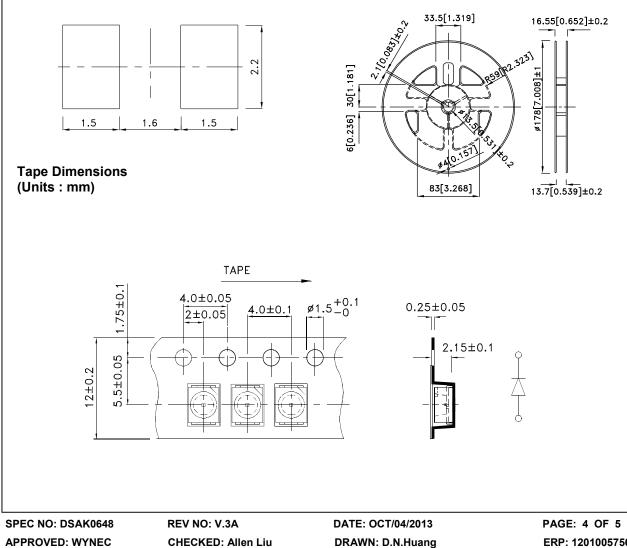
Reflow Soldering Profile For Lead-free SMT Process.



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.



#### **Reel Dimension**



**DRAWN: D.N.Huang** 

ERP: 1201005756

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