SUBMINIATURE SOLID STATE LAMP

Part Number: KM2520SURCK09 Hyper Red

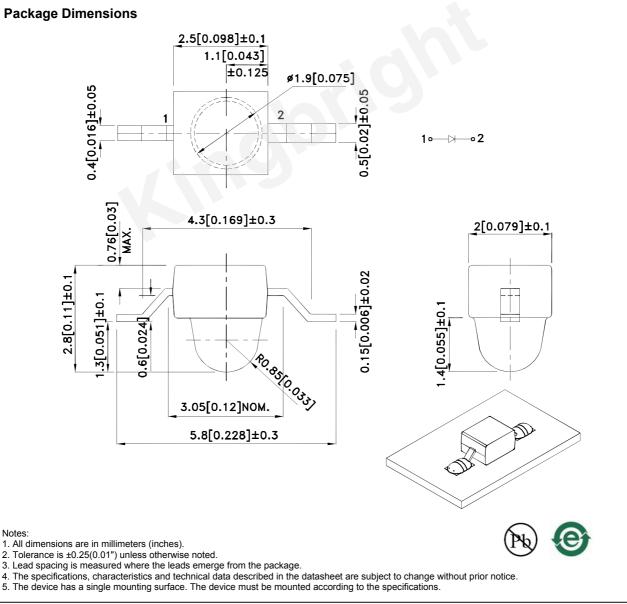
Features

- Subminiature package.
- Z-bend lead.
- Long life solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- Package : 1000pcs / reel.
- RoHS compliant.

Package Dimensions

Description

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



SPEC NO: DSAD0277 **APPROVED: WYNEC**

REV NO: V.13A CHECKED: Allen Liu DATE: MAR/30/2013 DRAWN: Y.Liu

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Solaction Guida

Selection Guide						
Part No.	Dice	Lens Type	Dice Lens Type Iv (mcd) [2]			Viewing Angle [1]
			Min.	Тур.	201/2	
KM2520SURCK09	Hyper Red (AlColnD)	Water Clear	1500	2400	20°	
	Hyper Red (AlGaInP)	Water Cled	*500	*1000		

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	Hyper Red	645		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red	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:

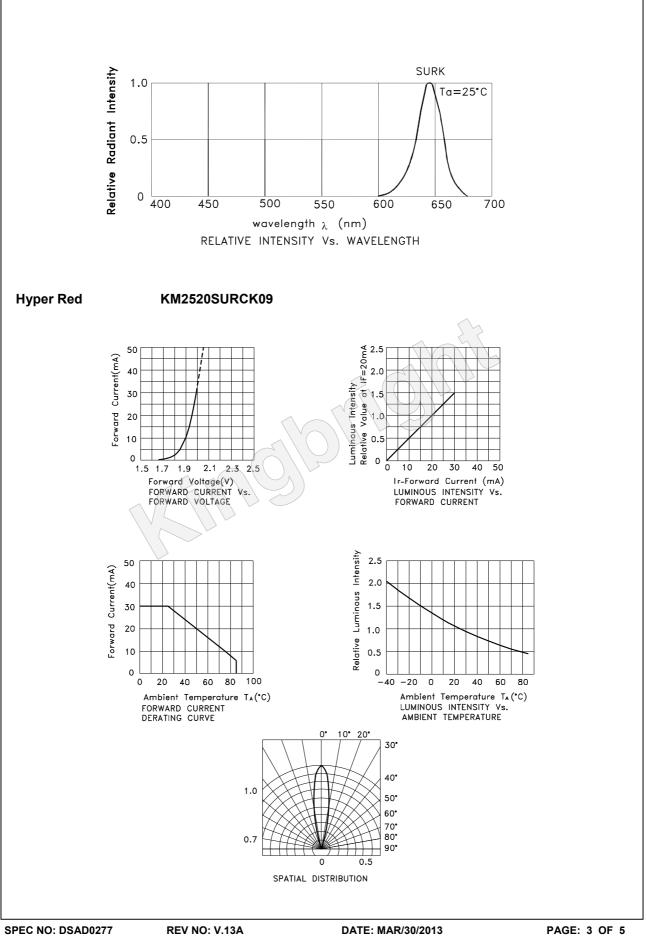
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

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.



KM2520SURCK09

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.

