SUBMINIATURE SOLID STATE LAMP

Part Number: KM2520ID09

High Efficiency Red

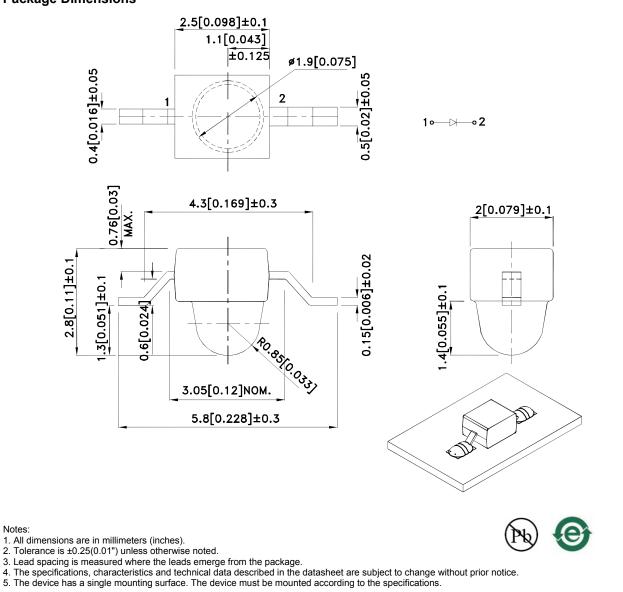
Features

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



SPEC NO: DSAA8054 APPROVED: WYNEC REV NO: V.10A CHECKED: Allen Liu DATE: MAY/03/2012 DRAWN: C.H.Han PAGE: 1 OF 5 ERP: 1202000482

Soloction Guido

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KM2520ID09	High Efficiency Red (GaAsP/GaP)	Red Diffused	12	20	40°
			*8	*16	

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%.
* Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

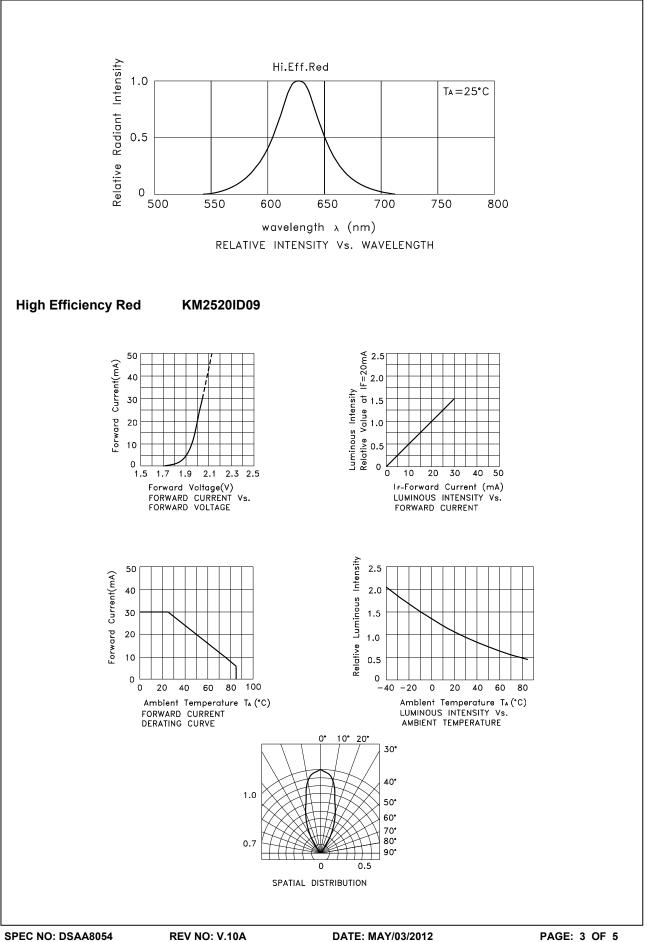
Symbol	Parameter	Device	Тур.		Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627	*627		nm	I⊧=20mA
λD [1]	Dominant Wavelength	High Efficiency Red	625	*617		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45			nm	I⊧=20mA
С	Capacitance	High Efficiency Red	15			pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	High Efficiency Red	2		2.5	V	I⊧=20mA
IR	Reverse Current	High Efficiency 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	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				

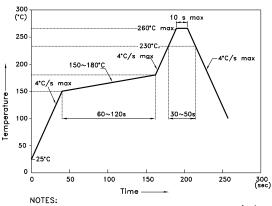
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.



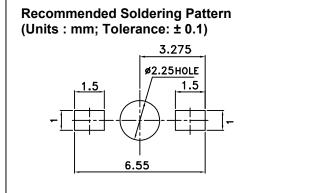
KM2520ID09

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.

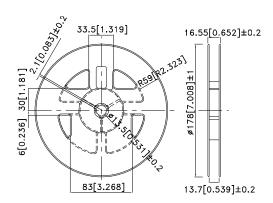
Reflow Soldering Profile For Lead-free SMT Process.

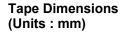


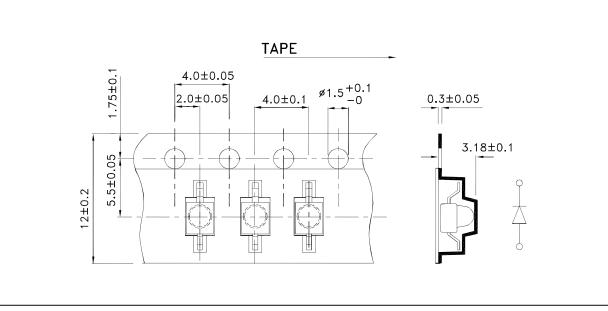
NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.



Reel Dimension



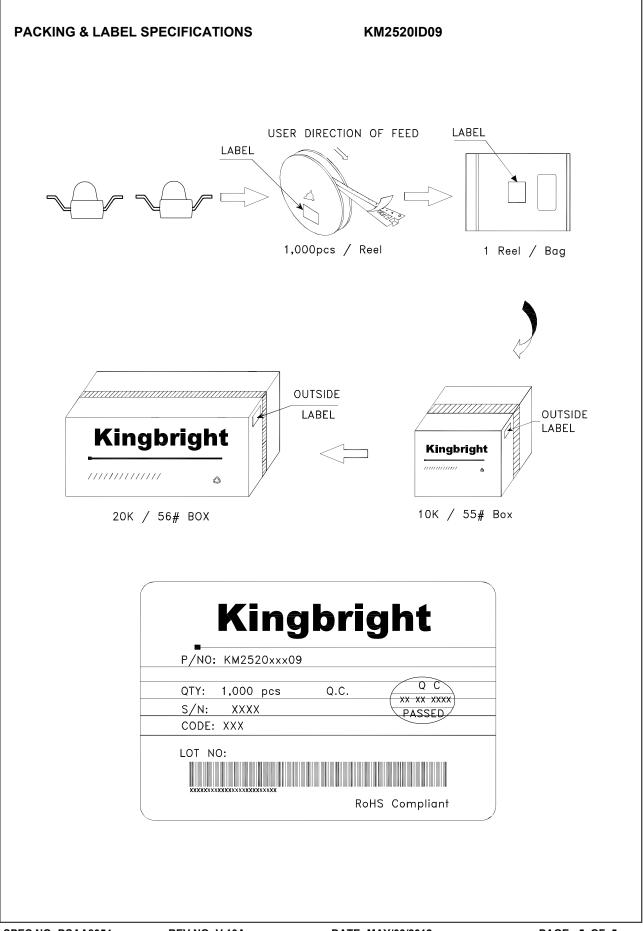




REV NO: V.10A **CHECKED: Allen Liu**

DATE: MAY/03/2012 **DRAWN: C.H.Han**

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