### SUBMINIATURE SOLID STATE LAMP

Part Number: KM2520YC03

Yellow

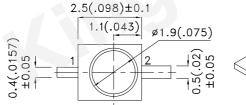
#### **Features**

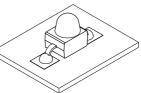
- Subminiature package.
- Gull wing lead.
- Long life solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- Package : 1000pcs / reel.
- RoHS compliant.

#### Description

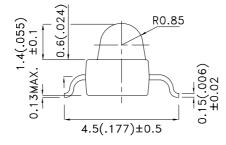
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

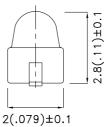
#### **Package Dimensions**





-17--0 2 10





#### Notes:

- All dimensions are in millimeters (inches).
  Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

5. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAA6779 **APPROVED: WYNEC** 

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

DATE: MAR/28/2013 DRAWN: Y.Liu

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### **Selection Guide**

Part No.	Dice	Lens Type	lv (mo @ 20	·	Viewing Angle [1]
			Min.	Тур.	201/2
KM2520YC03	Yellow (GaAsP/GaP)	Water Clear	20	50	20°

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	Yellow	590		nm	l⊧=20mA
λD [1]	Dominant Wavelength	Yellow	588		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Yellow	35		nm	I⊧=20mA
С	Capacitance	Yellow	20		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Yellow	2.1	2.5	V	l⊧=20mA
IR	Reverse Current	Yellow		10	uA	VR=5V

Notes:

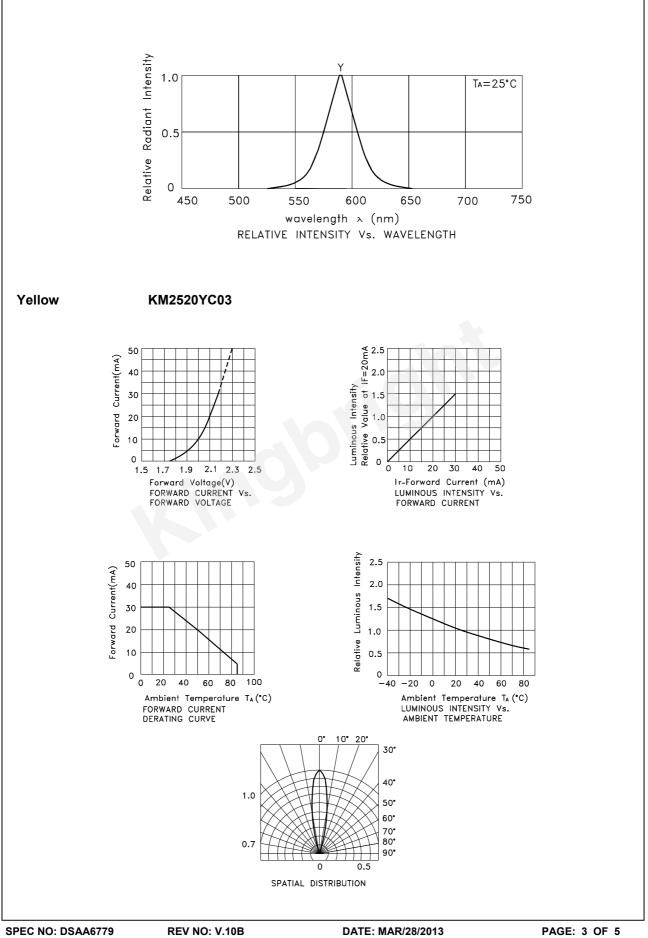
1.Wavelength: +/-1nm.

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

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

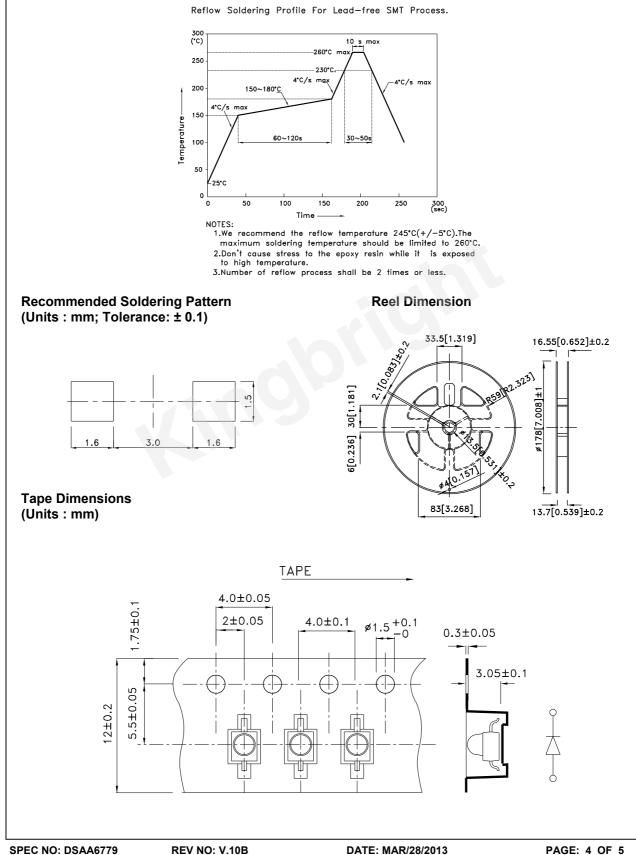
Parameter	Yellow	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

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



### KM2520YC03

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.



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