

SUBMINIATURE SOLID STATE LAMP

Part Number: KM2520YC03 Yellow

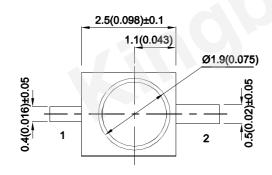
Features

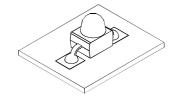
- Subminiature package.
- Gull wing lead.
- Long life solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- Package: 1000pcs / reel.
- RoHS compliant.

Description

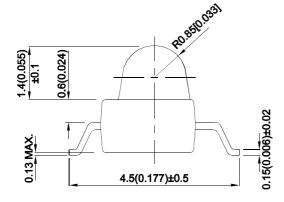
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

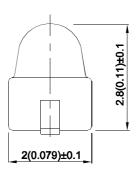
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- Lead spacing is measured where the leads emerge from the package.
 The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAA6779 DATE: JUN/07/2016 **REV NO: V.11B** PAGE: 1 OF 5 **APPROVED: Wynec CHECKED: Allen Liu** DRAWN: L.T.Zhang ERP: 1202000756



Selection Guide

Part No.	Iv (mcd) [2 Emitting Color (Material) Lens Type @ 20mA		,	Viewing Angle [1]	
	- , , ,	-	Min.	Тур.	201/2
KM2520YC03	Yellow (GaAsP/GaP)	Water Clear	20	50	20°

- 1. 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 CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Yellow	590		nm	IF=20mA
λD [1]	Dominant Wavelength	Yellow	588		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Yellow	35		nm	IF=20mA
С	Capacitance	Yellow	20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Yellow	2.1	2.5	V	IF=20mA
lr	Reverse Current	Yellow		10	uA	VR = 5V

- 1. Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.3. Wavelength value is traceable to CIE127-2007 standards.
- 4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

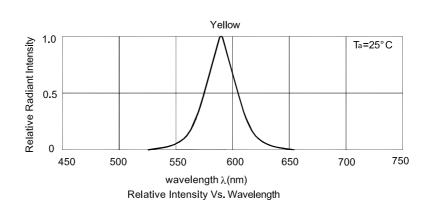
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

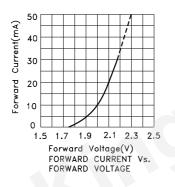
- Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

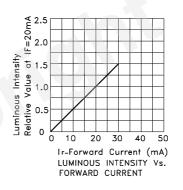
SPEC NO: DSAA6779 DATE: JUN/07/2016 **REV NO: V.11B** PAGE: 2 OF 5 APPROVED: Wynec **CHECKED: Allen Liu** DRAWN: L.T.Zhang ERP: 1202000756

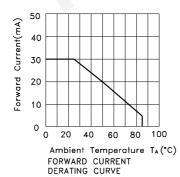
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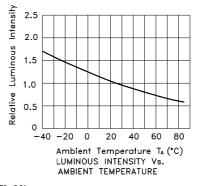


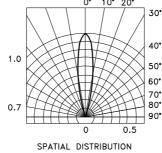
Yellow KM2520YC03











 SPEC NO: DSAA6779
 REV NO: V.11B
 DATE: JUN/07/2016
 PAGE: 3 OF 5

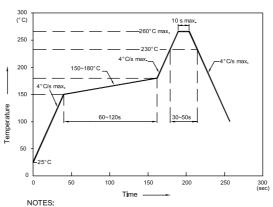
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KM2520YC03

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.

Reflow Soldering Profile For Lead-free SMT Process.



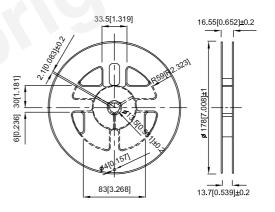
- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
- 2. Don't cause stress to the epoxy resin while it is exposed
- to high temperature.
 3.Number of reflow process shall be 2 times or less.

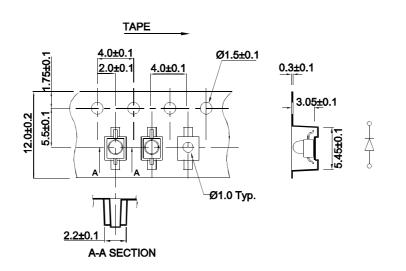
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units : mm)

Reel Dimension





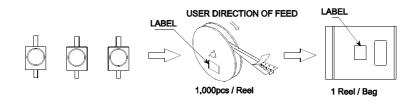
 SPEC NO: DSAA6779
 REV NO: V.11B
 DATE: JUN/07/2016
 PAGE: 4 OF 5

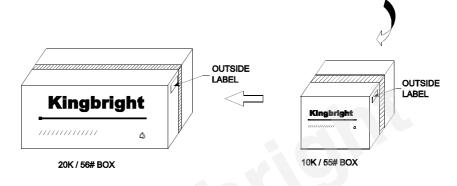
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PACKING & LABEL SPECIFICATIONS

KM2520YC03







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 SPEC NO: DSAA6779
 REV NO: V.11B
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 PAGE: 5 OF 5

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