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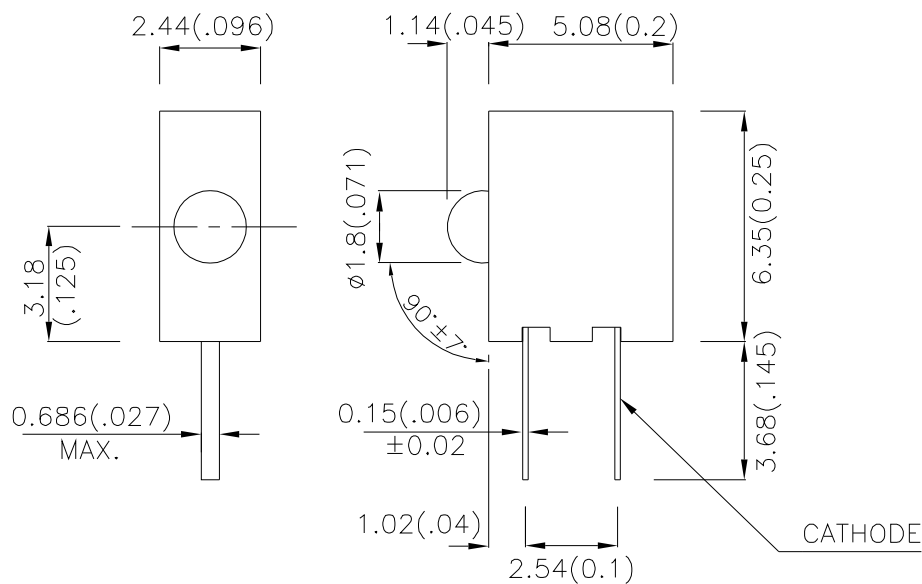## SUBMINIATURE SOLID STATE LAMP

P/N: KM2520EH/1YD-5V   YELLOW

Features

- BLACK CASE ENHANCES CONTRAST.
- VIBRATION AND SHOCK RESISTANT.
- UL RATING:94V-0.
- HOUSING MATERIAL:TYPE 66 NYLON.
- 5V INTERNAL RESISTOR.
- RoHS COMPLIANT.

Description

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

Package Dimensions

Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) V=5V		Viewing Angle
			Min.	Typ.	2θ1/2
KM2520EH/1YD-5V	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	1	3	40°

Note:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Yellow	590		nm	V_F=5V
λD	Dominant Wavelength	Yellow	588		nm	V_F=5V
$\Delta\lambda$1/2	Spectral Line Half-width	Yellow	35		nm	V_F=5V
I_F	Forward Current	Yellow	13	17.5	mA	V_F=5V
I_R	Reverse Current	Yellow		10	uA	V_R= 5V

Absolute Maximum Ratings at T_A=25°C

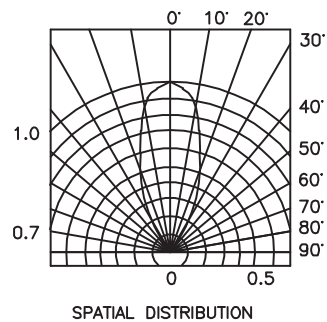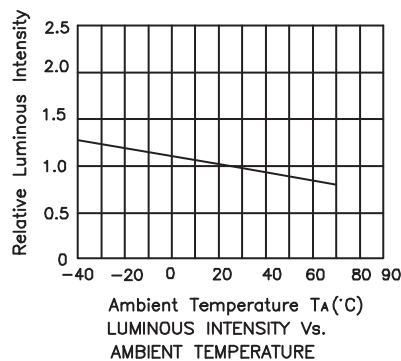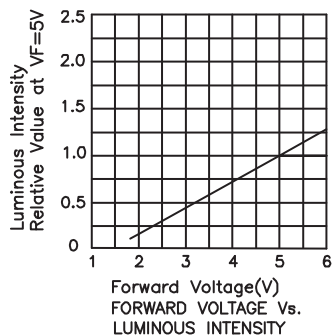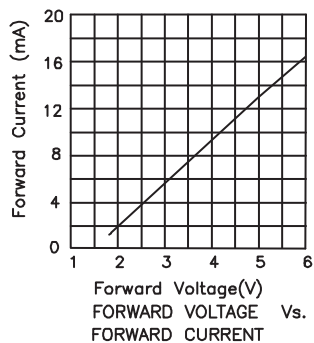| Parameter	Yellow	Units
Power dissipation	85	mW
Forward Voltage	6	V
Reverse Voltage	5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	
Lead Solder Temperature[1]	260°C For 3 Seconds	
Lead Solder Temperature[2]	260°C For 5 Seconds	

Notes:
1. 2mm below package base.
2. 5mm below package base.

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RELATIVE INTENSITY Vs. WAVELENGTH

Yellow   **KM2520EH/1YD-5V**

FORWARD VOLTAGE Vs.
FORWARD CURRENT

FORWARD VOLTAGE Vs.
LUMINOUS INTENSITY

LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

SPATIAL DISTRIBUTION

Remarks:

If special sorting is required (e.g. binning based on luminous intensity/ luminous flux or wavelength),

the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm

2. Luminous Intensity/ luminous flux: +/-15%

Note: Accuracy may depend on the sorting parameters.