SUBMINIATURE SOLID STATE LAMP

Part Number: KM2520EG/4ID

High Efficiency Red

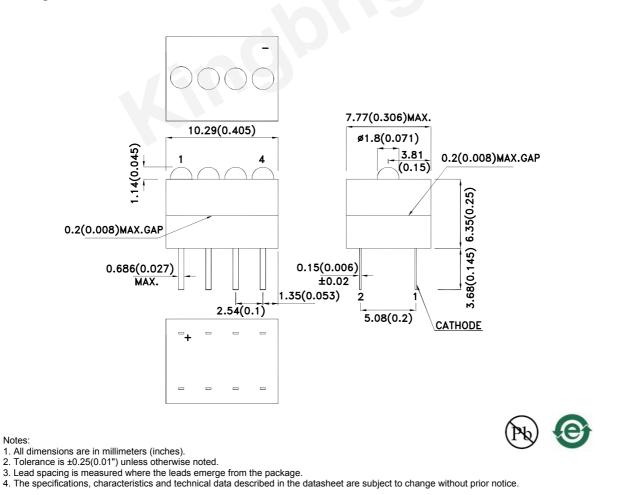
Features

- Black case enhances contrast.
- Vibration and shock resistant.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

Description

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

Package Dimensions



SPEC NO: DSAD0556 APPROVED: WYNEC REV NO: V.11A CHECKED: Allen Liu DATE: SEP/26/2013 DRAWN: D.N.Huang PAGE: 1 OF 5 ERP: 1102005298

Solaction Guida

Selection Guide					
Part No.	Part No. Dice Lens Type	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KM2520EG/4ID	High Efficiency Red (GaAsP/GaP)	Red Diffused	12	20	- 40°
			*8	*16	

Notes:

1. θ 1/2 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		nm	I⊧=20mA
λD [1]	Dominant Wavelength	High Efficiency Red	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
lr	Reverse Current	High Efficiency 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.

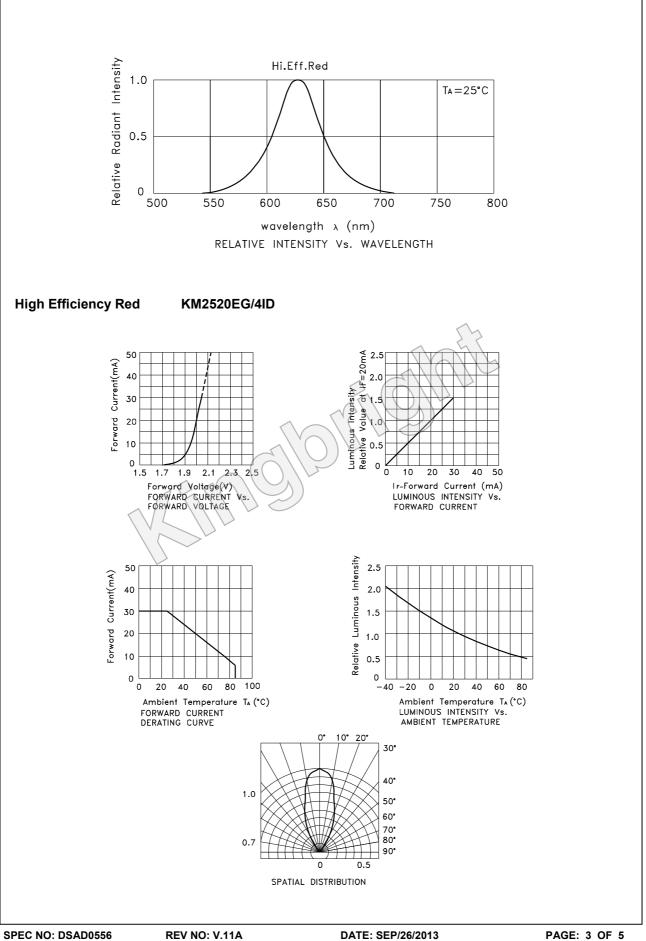
Absolute Maximum Ratings at TA=25°C

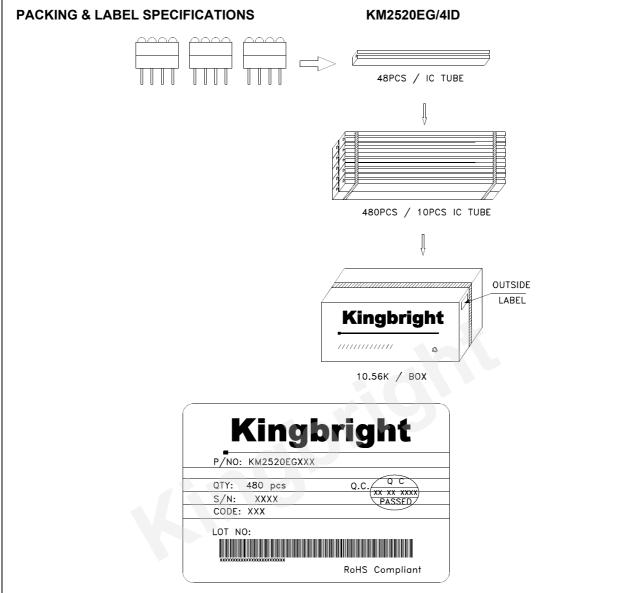
75		
75	mW	
30		
160	mA	
5	V	
-40°C To +85°C		
260°C For 3 Seconds		
260°C For 5 Seconds		
	160 5 -40°C To +85°C 260°C For 3 Seconds	

Notes:

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

2. 2mm below package base.
3. 5mm below package base.





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PRECAUTIONS

1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures.

