1.6x0.6mm RIGHT ANGLE SMD CHIP LED LAMP

Part Number: KPA-1606EC High Efficiency Red

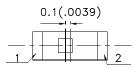
Features

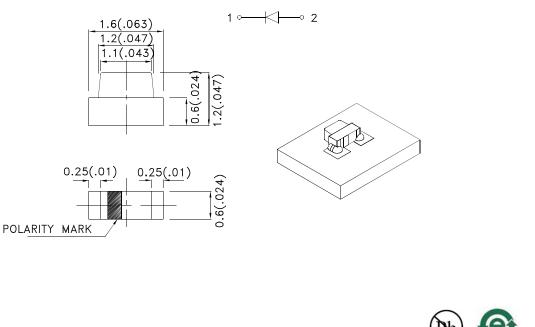
- 1.6mmx0.6mm right angle SMT LED,1.2mm thickness.
- Low power consumption.
- · Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package :2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Description

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

Package Dimensions





Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is ±0.1(0.004") unless otherwise noted.

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.

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPA-1606EC	High Efficiency Red (GaAsP/GaP)	Weter Clear	8	15	110°
		Water Clear	*3	*6	

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	Ту	/p.	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	IF=20mA
С	Capacitance	High Efficiency Red	1	5		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	High Efficiency Red	2	2	2.5	V	IF=20mA
lr	Reverse Current	High Efficiency Red			10	uA	VR=5V

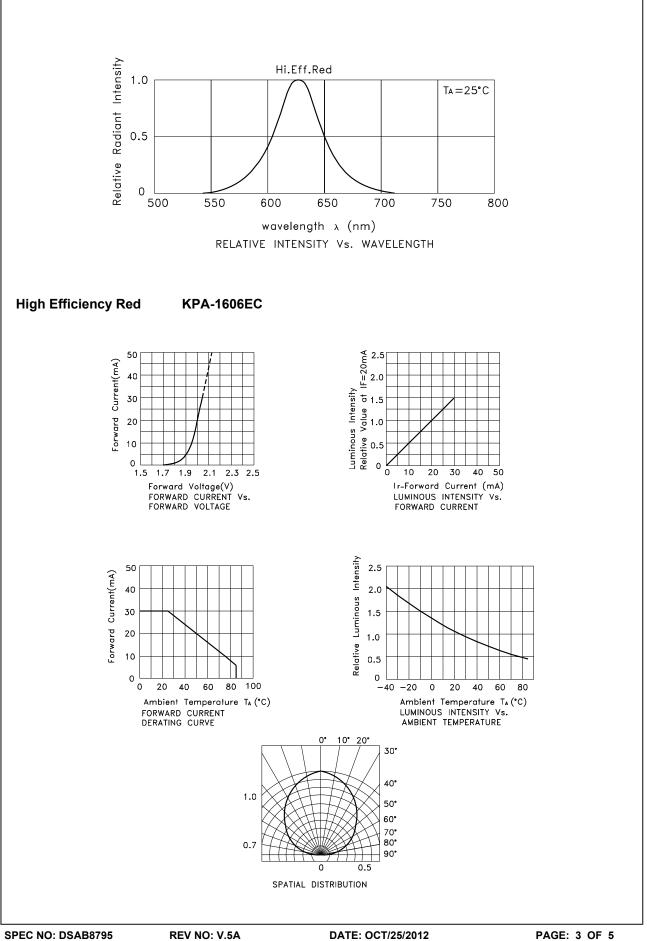
Notes:

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				

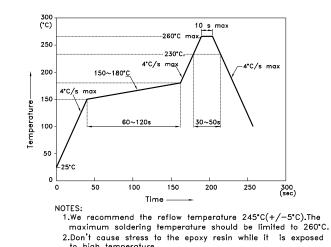
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPA-1606EC

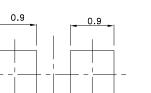
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



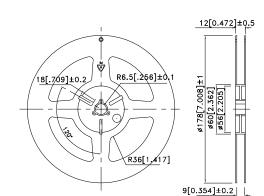
to high temperature. 3.Number of reflow process shall be 2 times or less.

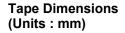


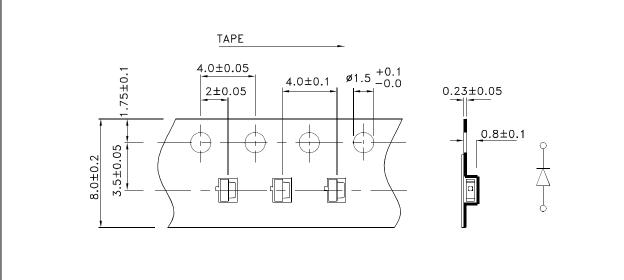


1.6

Reel Dimension







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