

SUBMINIATURE SOLID STATE LAMP

Part Number: KM2520IT01 High Efficiency Red

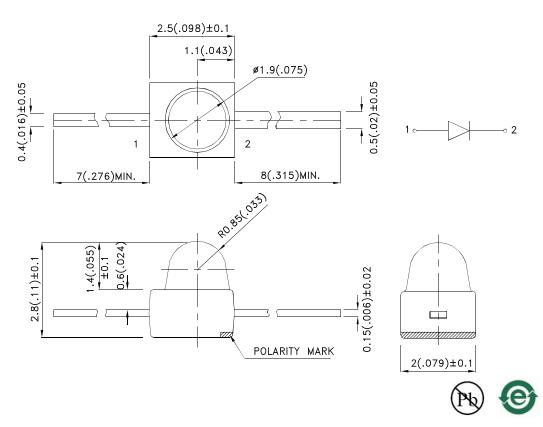
Features

- Subminiature package.
- Long life solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- 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



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ 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.

DATE: FEB/24/2010 SPEC NO: DSAE0938 **REV NO: V.2** PAGE: 1 OF 4 DRAWN: Y.L.LI APPROVED: WYNEC **CHECKED: Allen Liu** ERP: 1202000494

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		, , , , , , , , , , , , , , , , , , ,	Min.	Тур.	201/2
KM2520IT01	High Efficiency Red (GaAsP/GaP)	RED TRANSPARENT	10	40	20°

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions			
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA			
λD [1]	Dominant Wavelength	High Efficiency Red	625		nm	IF=20mA			
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=20mA			
С	Capacitance	High Efficiency Red	15		pF	V _F =0V;f=1MHz			
VF [2]	Forward Voltage	High Efficiency Red	2	2.5	V	IF=20mA			
lr	Reverse Current	High Efficiency Red		10	uA	V _R = 5V			

- 1.Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.

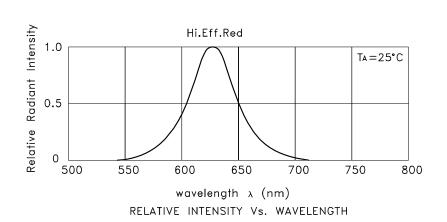
Absolute Maximum Ratings at TA=25°C

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/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		

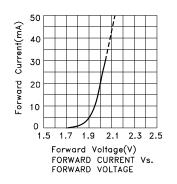
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

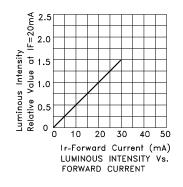
SPEC NO: DSAE0938 **REV NO: V.2** DATE: FEB/24/2010 PAGE: 2 OF 4 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.L.LI ERP: 1202000494

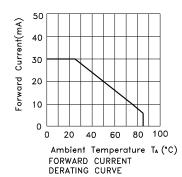
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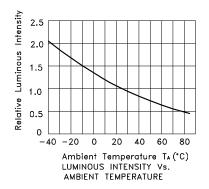


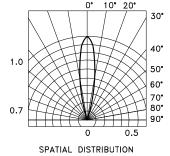
High Efficiency Red KM2520IT01





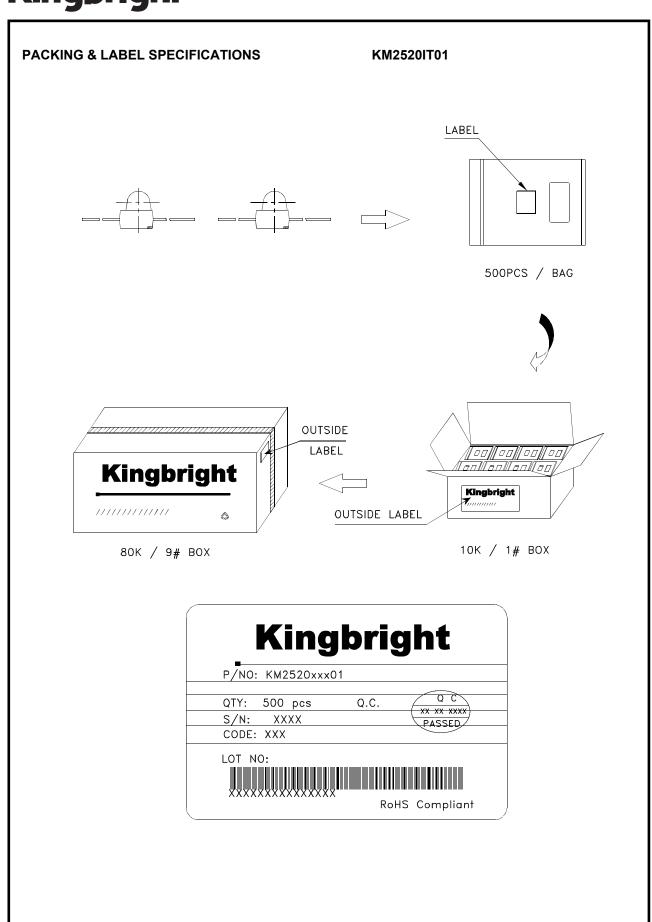






SPEC NO: DSAE0938 REV NO: V.2 DATE: FEB/24/2010 PAGE: 3 OF 4
APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Y.L.LI ERP: 1202000494

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SPEC NO: DSAE0938 APPROVED: WYNEC REV NO: V.2 CHECKED: Allen Liu DATE: FEB/24/2010 DRAWN: Y.L.LI PAGE: 4 OF 4 ERP: 1202000494