

Order code	Manufacturer code	Description		
56-0296	n/a	KPD-3224SURC (REEL1500) LED SMT H/RED (R		

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The enclosed information is believed to be correct, Information may change ±without noticeqdue to	Revision A
product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	20/02/2007

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3.2x2.4mm SMD CHIP LED LAMP

P/N: KPD-3224SURC

HYPER RED

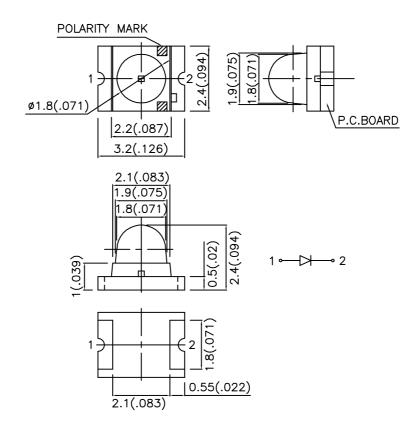
Features

- •3.2x2.4mm SMT LED, 2.4mm THICKNESS.
- •LOW POWER CONSUMPTION.
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- •VARIOUS COLORS AND LENS TYPES AVAILABLE.
- •PACKAGE : 1500PCS / REEL.
- •RoHS COMPLIANT.

Description

The Hyper Red source color devices are made with DH InGaAIP on GaAs substrate Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.1 (0.004")$ unless otherwise noted.

3. Specifications are subject to change without notice.

Selection Guid	le				
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
			Min. Typ.		201/2
KPD-3224SURC	HYPER RED (InGaAIP)	WATER CLEAR	650	1200	20°

Note:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

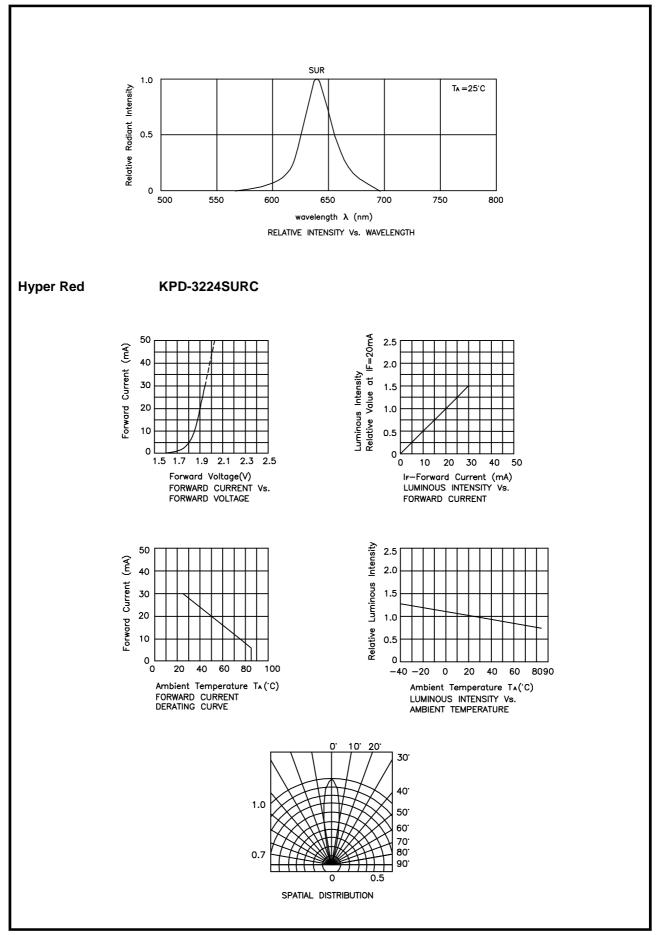
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	640		nm	IF=20mA
λD	Dominant Wavelength	Hyper Red	628		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	27		nm	IF=20mA
С	Capacitance	Hyper Red	45		pF	VF=0V;f=1MHz
VF	Forward Voltage	Hyper Red	1.9	2.5	V	IF=20mA
IR	Reverse Current	Hyper Red		10	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Units	
Power dissipation	170	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	185	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		

Note:

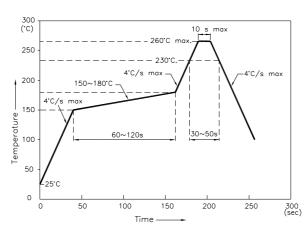
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



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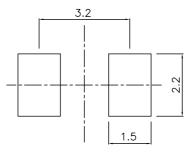
Reflow Soldering Profile For Lead-free SMT Process.



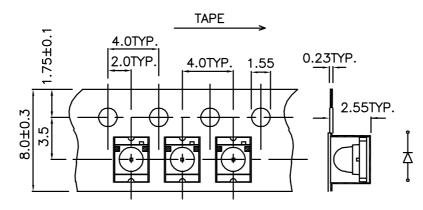
NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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





Tape Specifications (Units : mm)



Remarks:

If special sorting is required (e.g. binning based on forward voltage, 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%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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