3.8x2.0mm DOME LENS SMD CHIP LED LAMP

KPED-3820SURC

HYPER RED

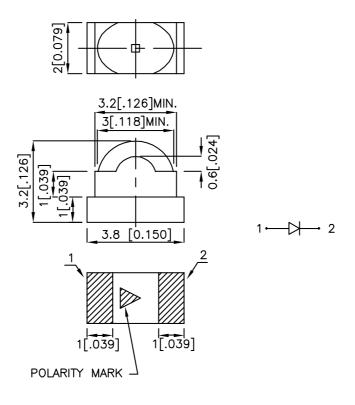
Features

•3.8mmx2.0mm SMT LED,3.2mm THICKNESS.
•LOW POWER CONSUMPTION.
•IDEAL FOR BACKLIGHT AND INDICATOR.
•VARIOUS COLORS AND LENS TYPES AVAILABLE.
•PACKAGE : 500PCS / 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 $\pm 0.2 (0.008")$ unless otherwise noted.

3. Specifications are subject to change without notice.

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Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle			
			Min.	Тур.	201/2			
KPED-3820SURC	HYPER RED (InGaAIP)	WATER CLEAR	180	500	60°(H) 35°(V)			

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

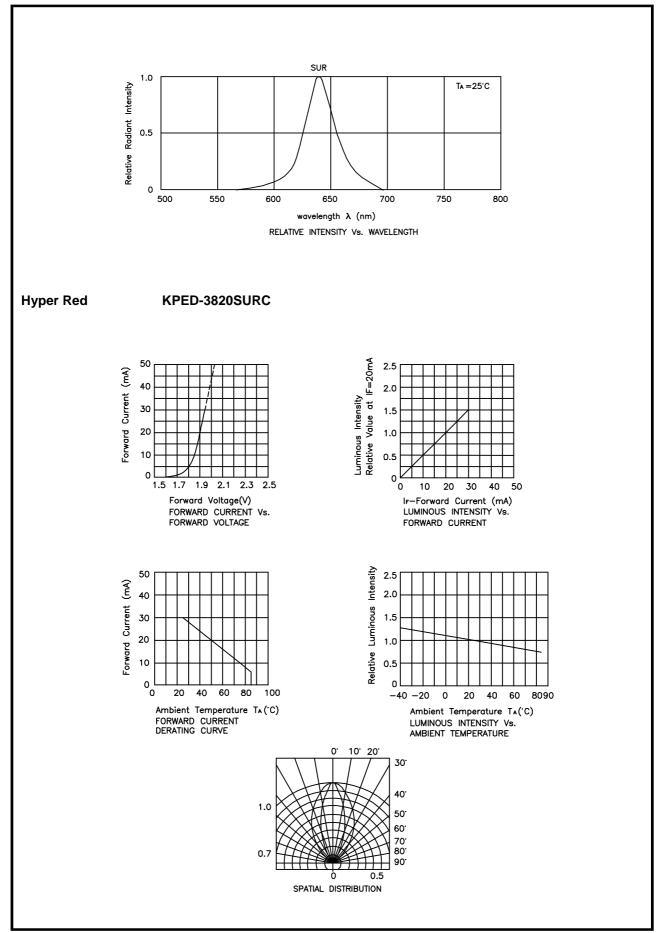
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	640		nm	IF=20mA
λD	Dominant Wavelength	Hyper Red	628		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	27		nm	IF=20mA
С	Capacitance	Hyper Red	45		pF	VF=0V;f=1MHz
Vf	Forward Voltage	Hyper Red	1.9	2.5	V	IF=20mA
IR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

Absolute Maximum Ratings at TA=25°C

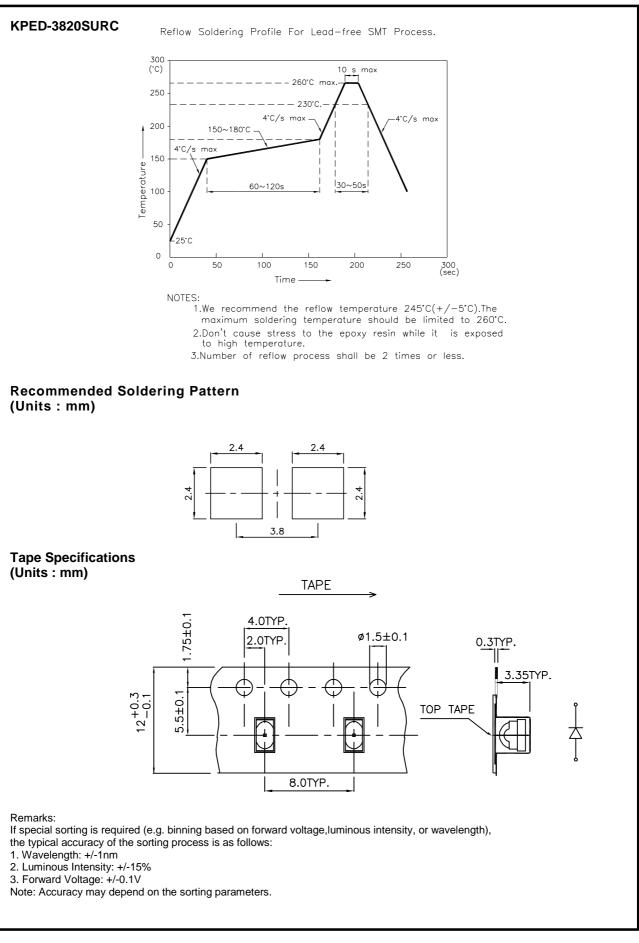
Parameter	Hyper Red	Units	
Power dissipation	170	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	185	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		

Note:

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



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