1.6X0.8mm SMD CHIP LED LAMP (0.25mm Height)

Part Number: KPG-1608SURKC-T Hyper Red

Features

- 1.6mmX0.8mm SMT LED, 0.25mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

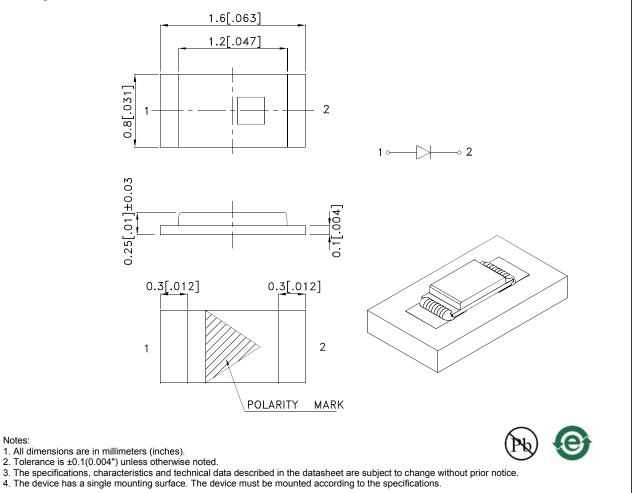
The Hyper Red source color devices are made with Al-GalnP on GaAs substrate Light Emitting Diode.

Applications

Mobile phone Keypad indicator and backlight.
Flat backlight for LCD, switch and symbol.

3.Toys.

Package Dimensions



SPEC NO: DSAI7025 APPROVED: WYNEC REV NO: V.4A CHECKED: Allen Liu DATE: NOV/12/2011 DRAWN: D.M.Su PAGE: 1 OF 5 ERP: 1203008082

Selection Guide

Selection Guide							
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]		
			Min.	Тур.	201/2		
KPG-1608SURKC-T	Hyper Red (AlGaInP)	Water Clear	200	350	120°		
		Water Clear	*55	*110			

Notes: 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity/ luminous Flux: +/-15%. * 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	Hyper Red	650	*645		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red	630	*630		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	20			nm	I⊧=20mA
С	Capacitance	Hyper Red	35			pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red	2		2.5	V	I⊧=20mA
IR	Reverse Current Hyper Red		10	uA	VR=5V		

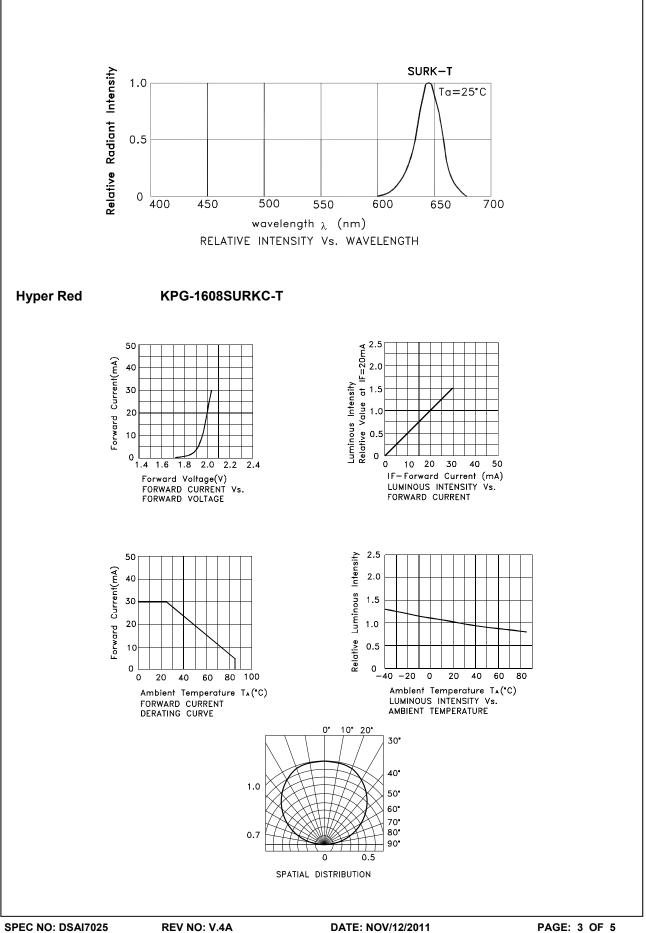
Notes:

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

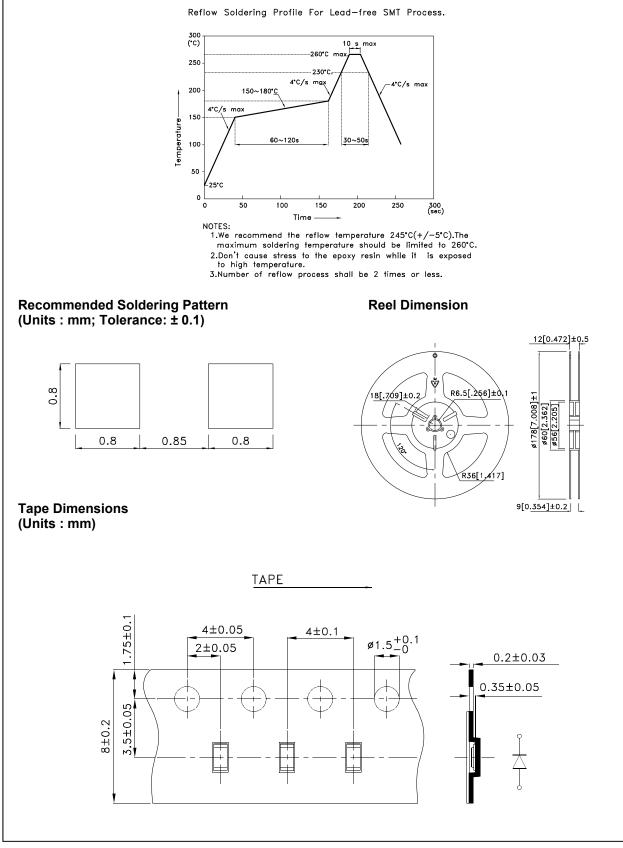
Parameter	Hyper Red	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

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



KPG-1608SURKC-T

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.



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