## SURFACE MOUNT DISPLAY

Part Number: KCSC02-105 Hyper Red

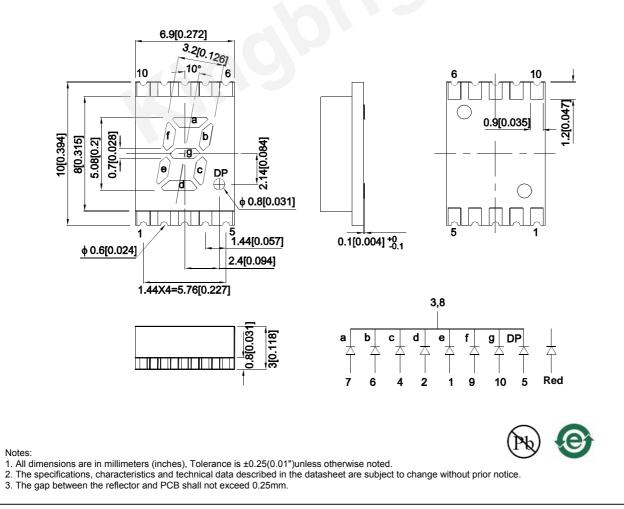
### **Features**

- 0.2inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package : 650pcs / reel.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

### Description

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

## Package Dimensions& Internal Circuit Diagram



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### **Selection Guide** lv (ucd) [1] @ 10mA Part No. **Emitting Color (Material)** Lens Type Description Min. Тур. 14000 30000 Common Cathode, Rt. KCSC02-105 Hyper Red (AlGaInP) White Diffused Hand Decimal. \*3600 \*8100

Notes:

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	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	645		nm	IF=10mA
λD [1]	Dominant Wavelength	Hyper Red	630		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	IF=10mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red	1.85	2.5	V	IF=10mA
IR	Reverse Current	Hyper Red		10	uA	VR=5V

Notes:

1. Wavelength: +/-1nm.

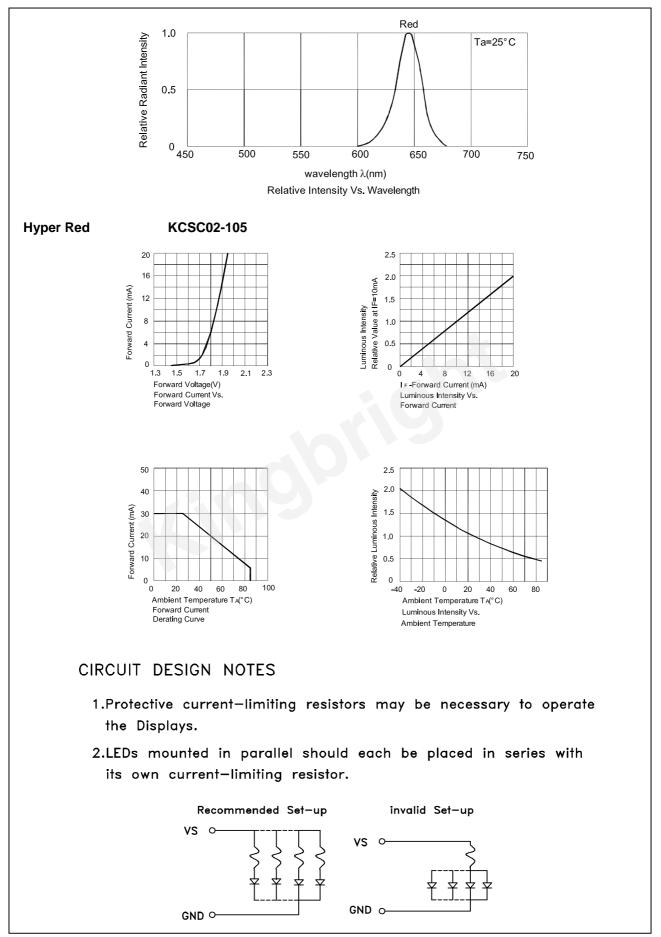
2. Forward Voltage: +/-0.1V.

Wavelength value is traceable to the CIE127-2007 compliant national standards.
Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

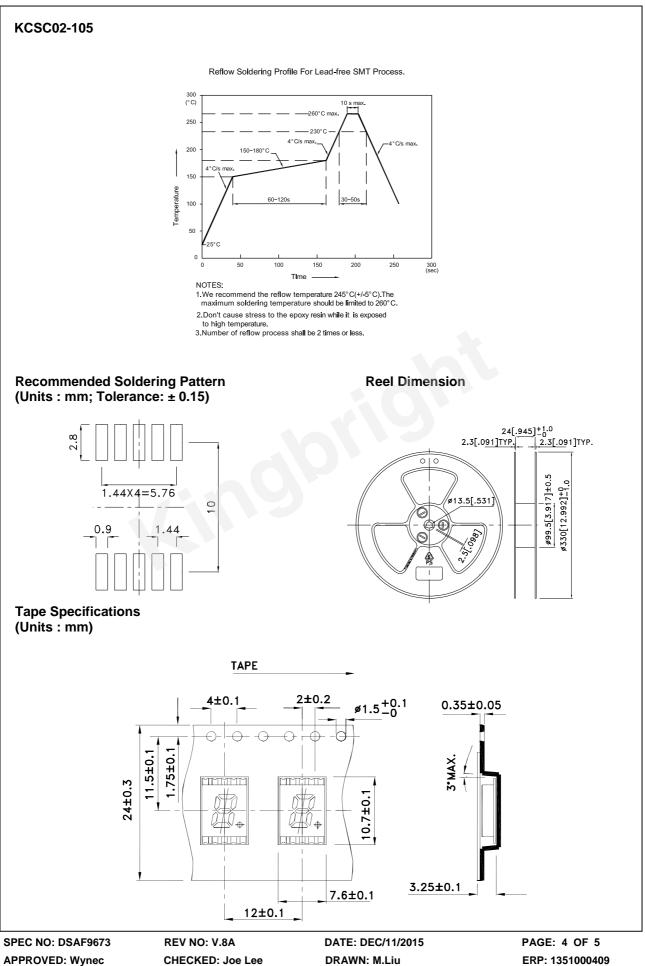
### Absolute Maximum Ratings at TA=25°C

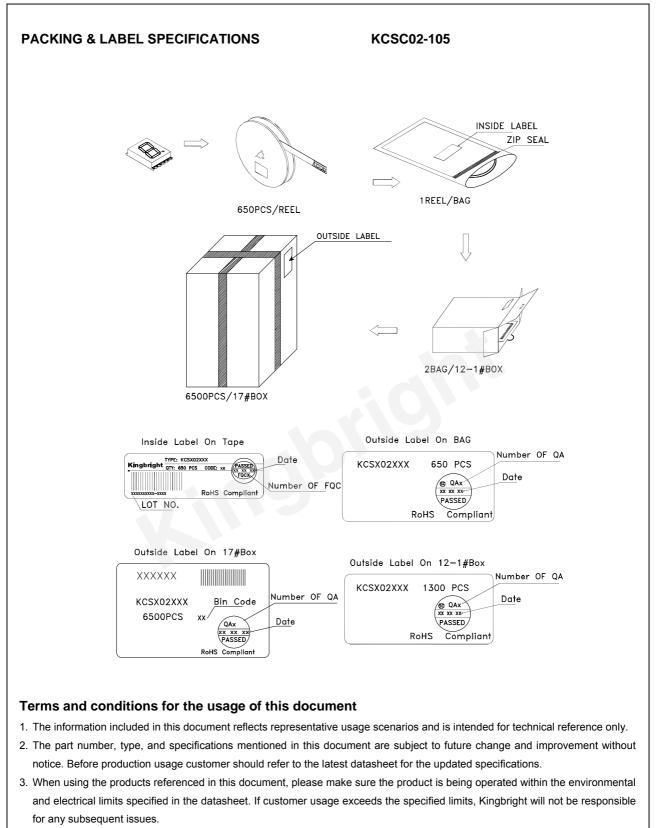
Parameter	Values	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	185	mA		
Reverse Voltage	5	V		
Operating / Storage Temperature	-40°C To +85°C			

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



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- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
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