### SURFACE MOUNT DISPLAY

Part Number: KCSC04-105 Hyper Red

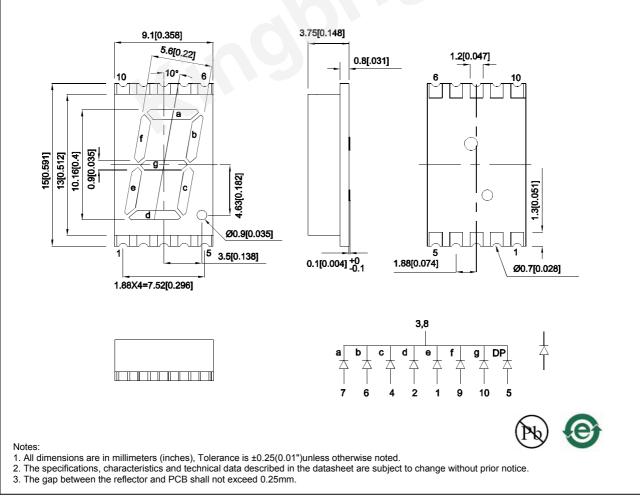
#### **Features**

- 0.4 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package:400pcs/ 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



SPEC NO: DSAG3007 **APPROVED: Wynec** 

REV NO: V.9A **CHECKED:** Joe Lee DATE: JUL/04/2016 **DRAWN: L.T.Zhang**  PAGE: 1 OF 5 ERP: 1351000440

Selection Guide										
Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description					
			Min.	Тур.						
KCSC04-105	Hyper Red (AlGaInP) White Diffu	White Diffused	21000	54000	Common Cathode, Rt.					
105		White Diffused	*9000	*20000	Hand Decimal.					

Notes:

Luminous intensity / luminous Flux: +/-15%.
\* Luminous intensity value is traceable to CIE127-2007 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.

3. Wavelength value is traceable to CIE127-2007 standards.

4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

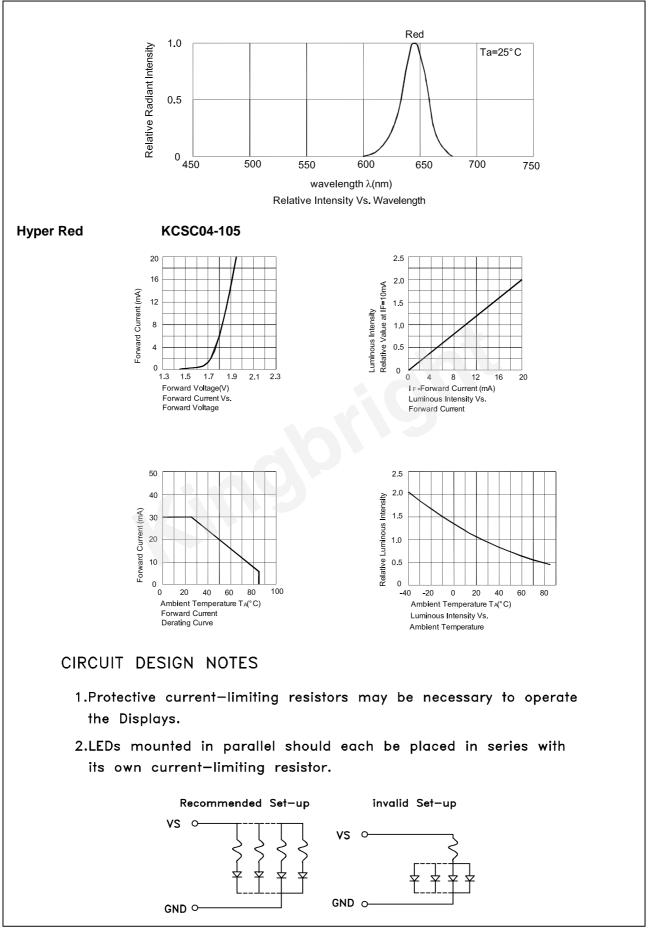
#### Absolute Maximum Ratings at TA=25°C

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		

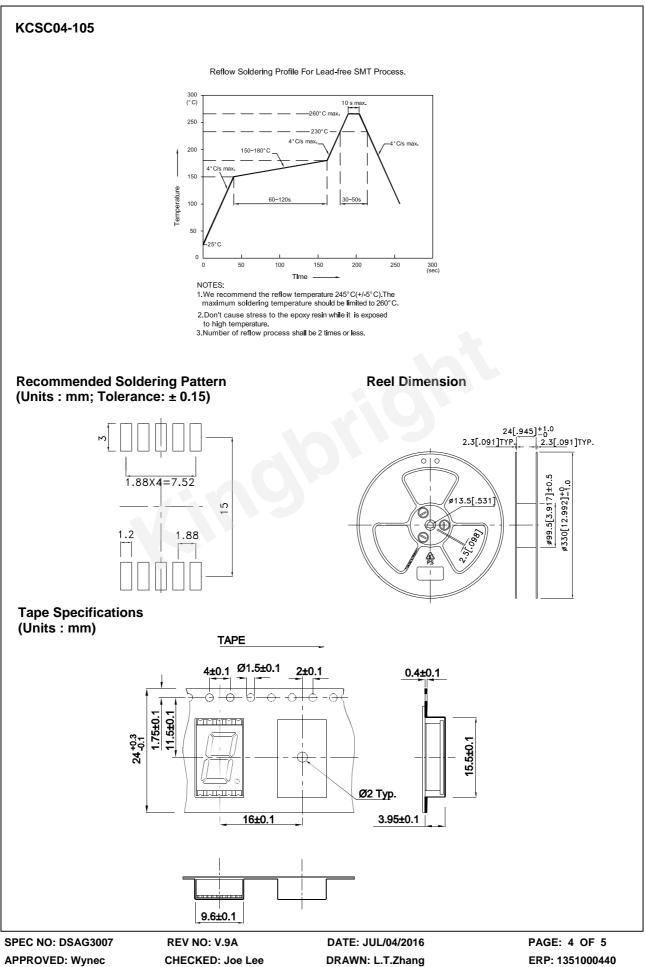
Notes:

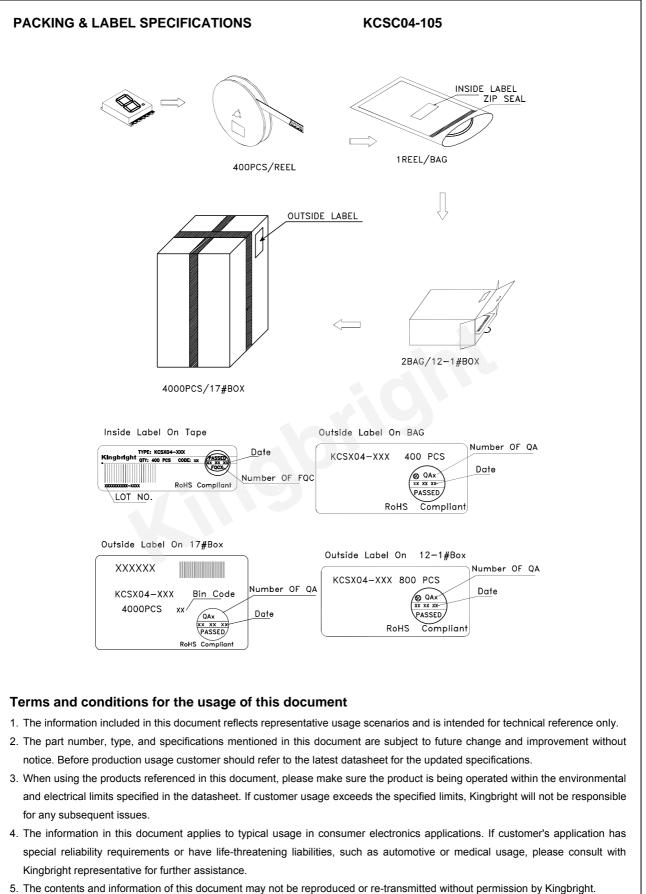
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



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All design applications should refer to Kingbright application notes available at <a href="http://www.kingbright.com/application">http://www.kingbright.com/application</a> notes

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