### SURFACE MOUNT DISPLAY

Part Number: KCPSA04-105

Hyper Red

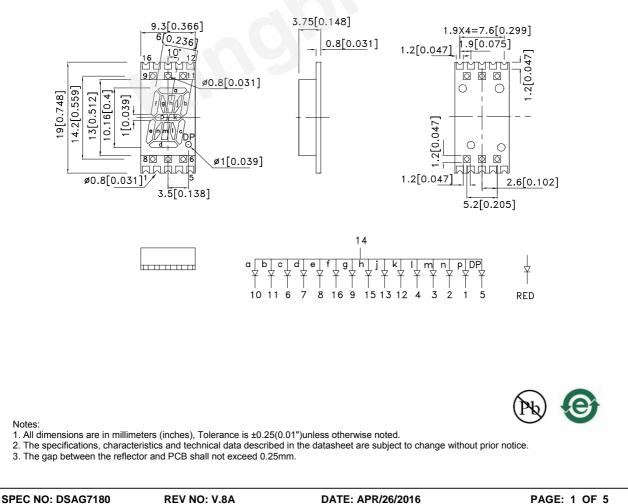
#### **Features**

- 0.4 inch character height.
- Low current operation.
- High contrast and light output.
- Categorized for luminous intensity.
- 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



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Selection Guide	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	Decemption
KCPSA04-105	Hyper Red (AlGaInP)	nP) White Diffused	36000	Common Anode, Rt.	
			*3600	*8300	Hand Decimal.

Notes:

1. 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
lr	Reverse Current	Hyper Red		10	uA	VR=5V

Notes:

Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
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.

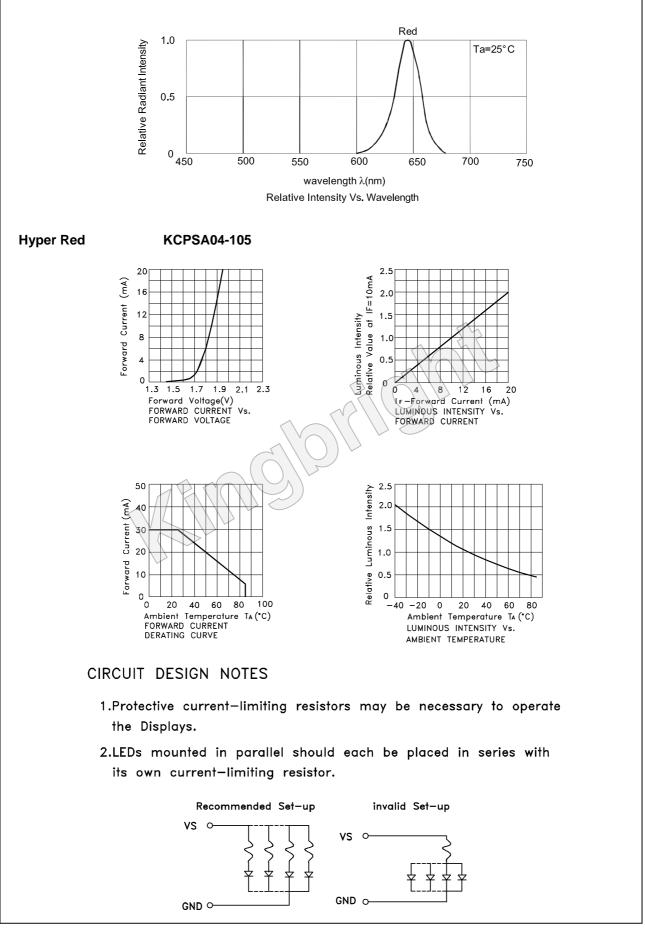
### Absolute Maximum Ratings at TA=25°C

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		

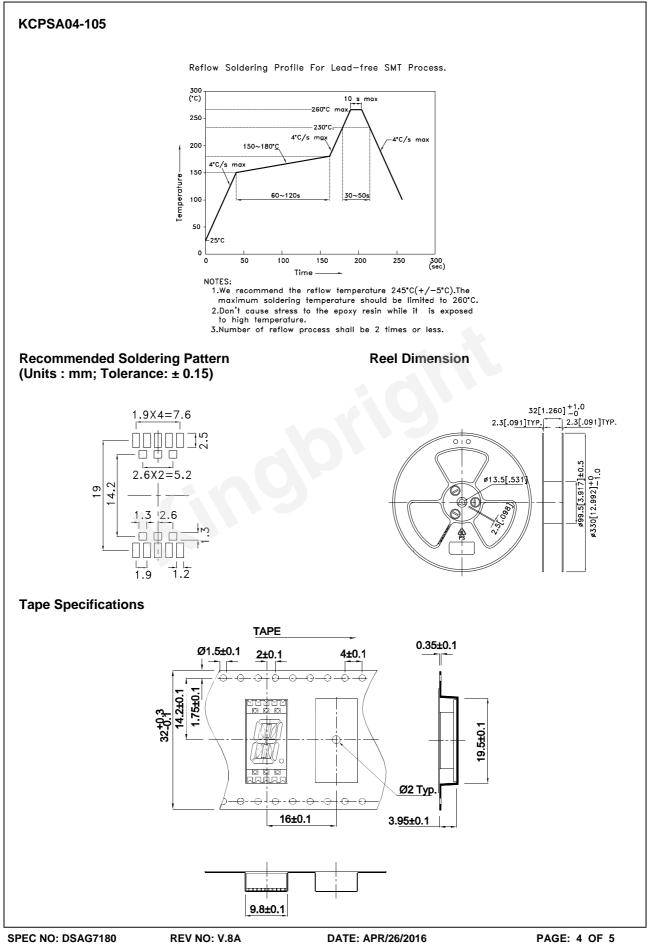
Notes:

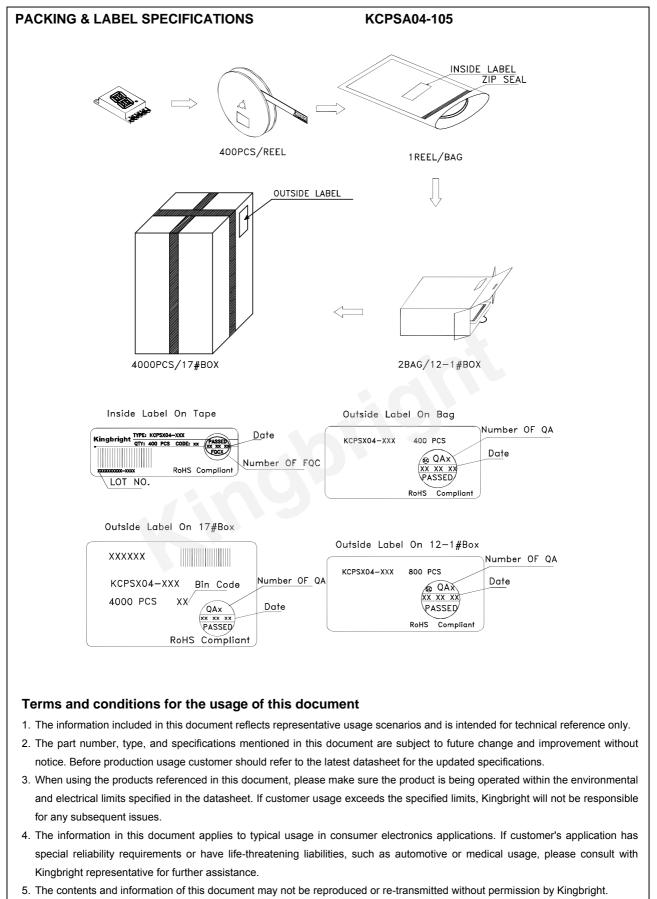
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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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6. All design applications should refer to Kingbright application notes available at http://www.kingbright.com/application\_notes

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