SURFACE MOUNT DISPLAY

Part Number: KCDA02-105

Hyper Red

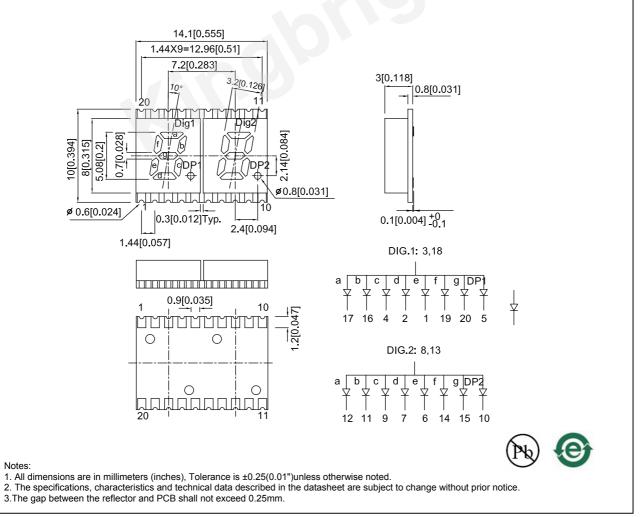
Features

- 0.2 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Package :300pcs / reel.
- Gray face, white segment.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

Description

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

Package Dimensions& Internal Circuit Diagram



SPEC NO: DSAG2870 APPROVED: Wynec REV NO: V.12A CHECKED: Joe Lee DATE: JUN/20/2016 DRAWN: F.Zhang PAGE: 1 OF 5 ERP: 1352000352

Selection Guide									
Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description				
			Min.	Тур.					
KCDA02-105	Hyper Red (AlGaInP)	White Diffused	14000	30000	Common Anode, Rt. Hand Decimal.				
			*3600	*8100					

Note:

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	I⊧=10mA
λD [1]	Dominant Wavelength	Hyper Red	630		nm	I⊧=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:

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.

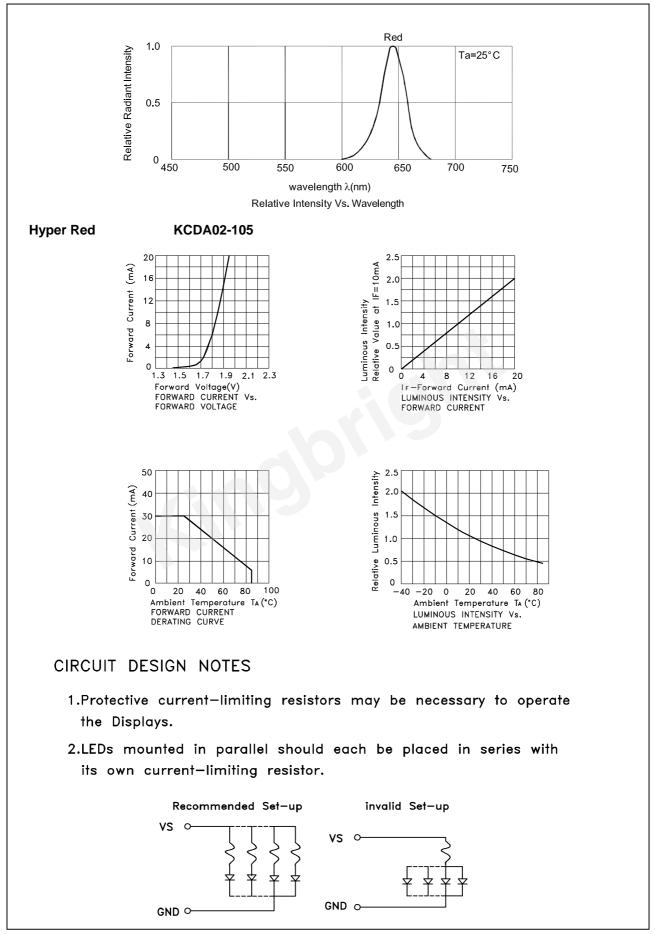
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	185	mA
Reverse Voltage	5	V
Electrostatic Discharge Threshold (HBM)	3000	V
Operating / Storage Temperature	-40°C To +85°C	

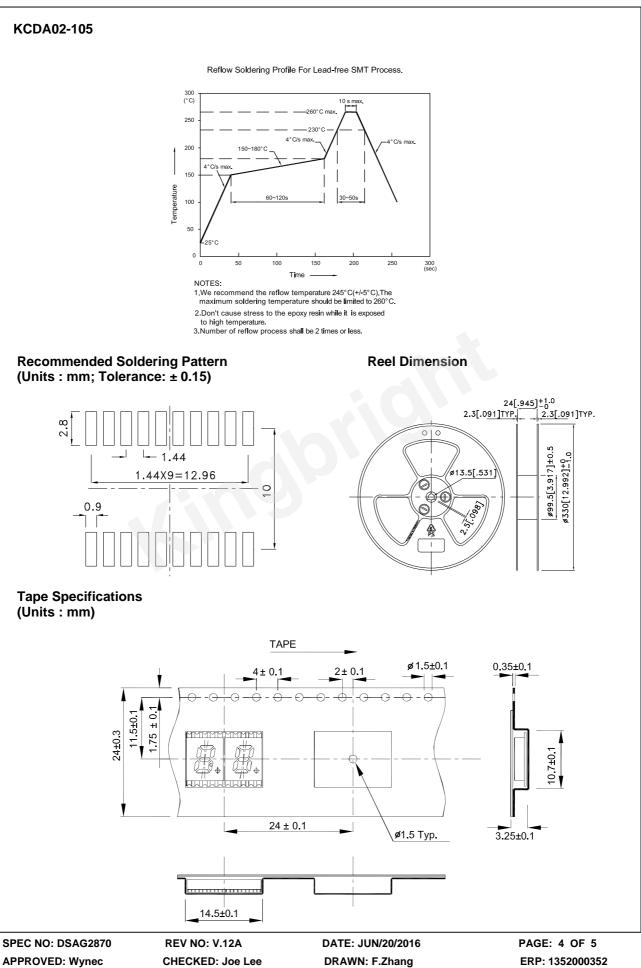
Notes:

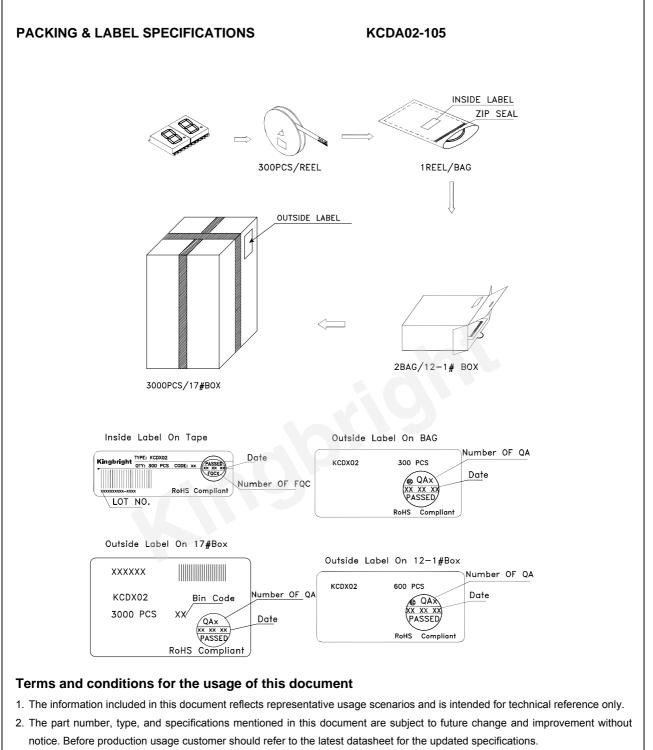
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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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- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
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