

#### SURFACE MOUNT DISPLAY

KPDA56-102 SUPER BRIGHT GREEN

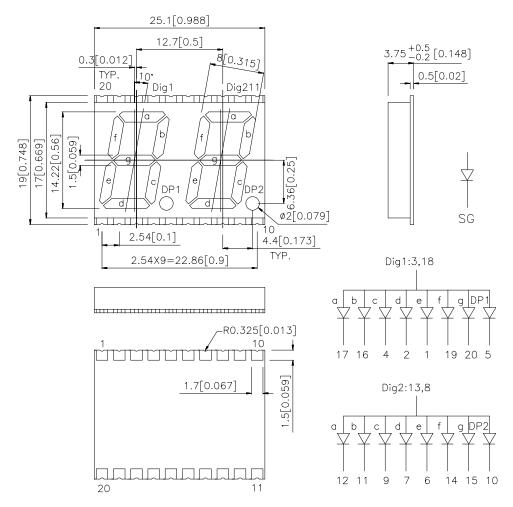
#### **Features**

- •0.56 INCH DIGIT HEIGHT.
- •LOW CURRENT OPERATION.
- •EXCELLENT CHARACTER APPEARANCE.
- •I.C. COMPATIBLE.
- •MECHANICALLY RUGGED.
- •GRAY FACE, WHITE SEGMENT.
- •PACKAGE:400PCS/REEL.

#### **Description**

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

## Package Dimensions& Internal Circuit Diagram



#### Notes:

1. All dimensions are in millimeters (inches), Tolerance is  $\pm 0.25 (0.01")$  unless otherwise noted.

Specifications are subject to change whitout notice.

SPEC NO: DSAA9174 REV N APPROVED: J. Lu CHEC

REV NO: V.2 CHECKED :Joe Lee DATE: SEP/04/2002 DRAWN: L.ZHANG PAGE: 1 OF 4



#### **Selection Guide**

Part No.	Dice	Lens Type	<b>lv (ucd)</b> @ 10 mA		Description	
			Min.	Тур.		
KPDA56-102	SUPER BRIGHT GREEN (GaP)	WHITE DIFFUSED	4700	13200	Common Anode, Rt. Hand Decimal	

# Electrical / Optical Characteristics at T<sub>A</sub>=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Green	565		nm	IF=20mA
λD	Dominate Wavelength	Super Bright Green	568		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	IF=20mA
С	Capacitance	Super Bright Green	15		pF	V <sub>F</sub> =0V;f=1MHz
VF	Forward Voltage	Super Bright Green	2.2	2.5	V	IF=20mA
IR	Reverse Current	Super Bright Green		10	uA	V <sub>R</sub> = 5V

### Absolute Maximum Ratings at T<sub>A</sub>=25°C

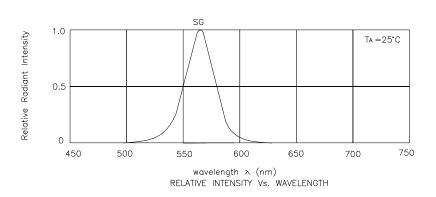
Parameter	Super Bright Green	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

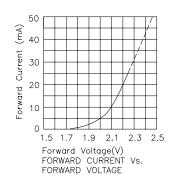
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

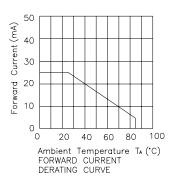
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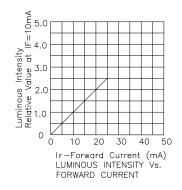


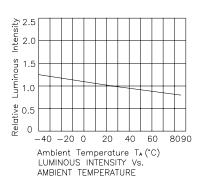


### Super Bright Green KPDA56-102









SPEC NO: DSAA9174 REV NO: V.2 DATE
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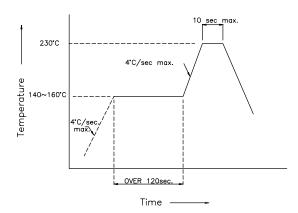
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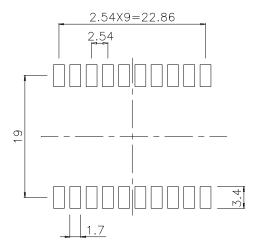
# Kingbright

### KPDA56-102 SMT Reflow Soldering Instruction

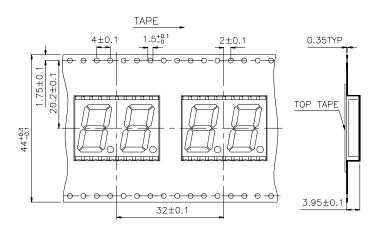
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



# Recommended Soldering Pattern (Units:mm)



# Tape Specification (Units:mm)



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