

KPDC02-102

SUPER BRIGHT GREEN

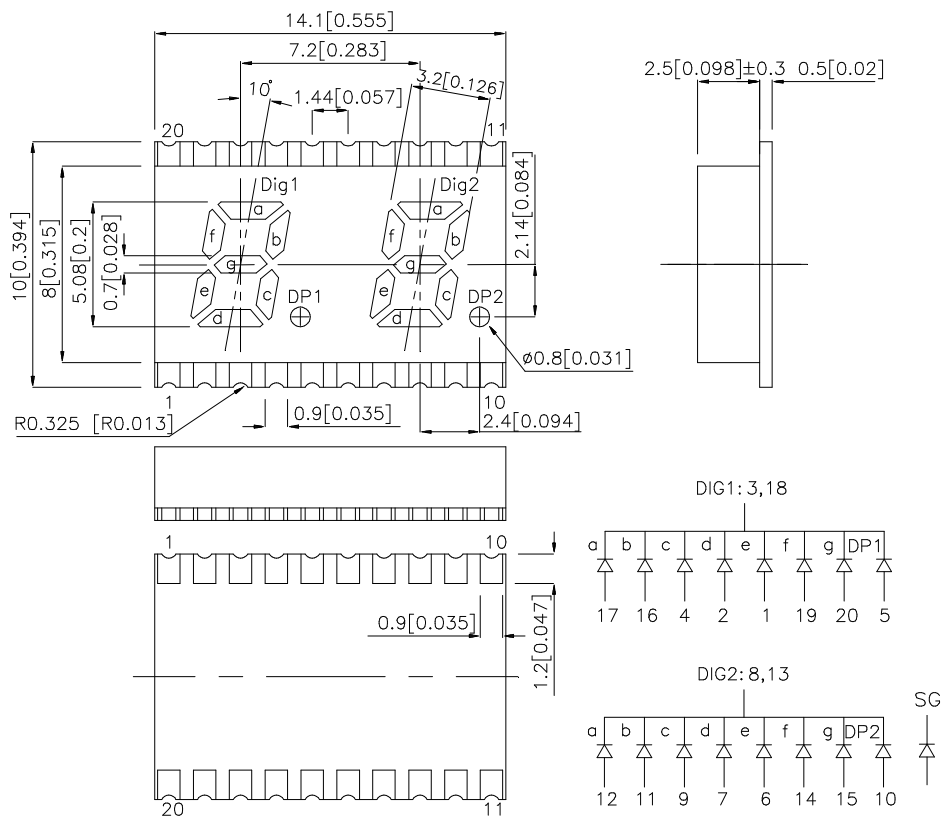
Features

- 0.2 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- PACKAGE :600PCS / REEL.
- GRAY FACE, WHITE SEGMENT.

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.
2. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) @ 10mA		Description
			Min.	Typ.	
KPDC02-102	SUPER BRIGHT GREEN (GaP)	WHITE DIFFUSED	1900	10000	Common Cathode, Rt. Hand Decimal.

Electrical / Optical Characteristics at TA=25°C

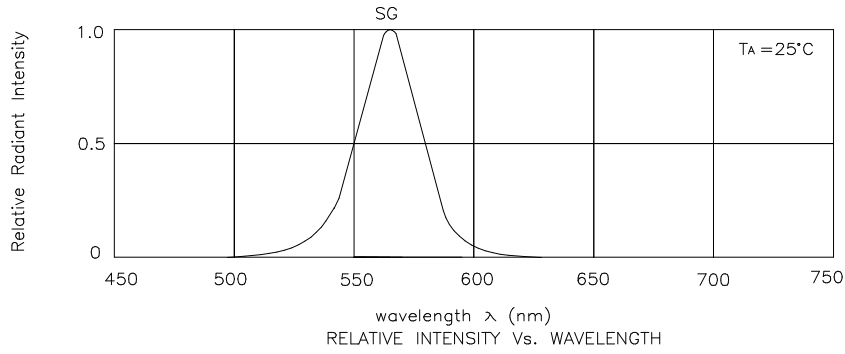
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Super Bright Green	565		nm	$I_F=20mA$
λ_D	Dominant Wavelength	Super Bright Green	568		nm	$I_F=20mA$
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Super Bright Green	30		nm	$I_F=20mA$
C	Capacitance	Super Bright Green	15		pF	$V_F=0V; f=1MHz$
V_F	Forward Voltage	Super Bright Green	2.2	2.5	V	$I_F=20mA$
I_R	Reverse Current	Super Bright Green		10	uA	$V_R = 5V$

Absolute Maximum Ratings at TA=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	

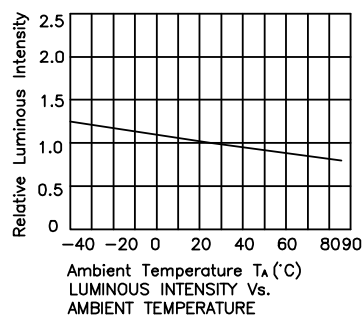
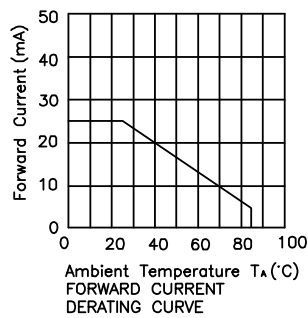
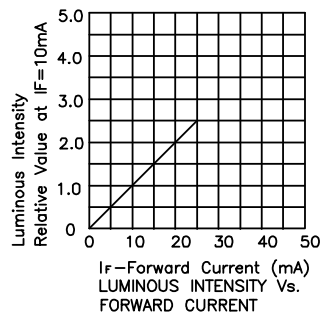
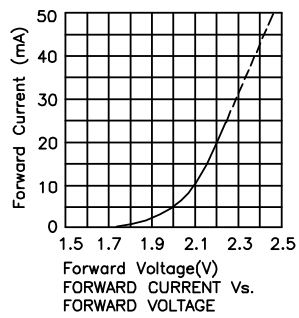
Note:

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



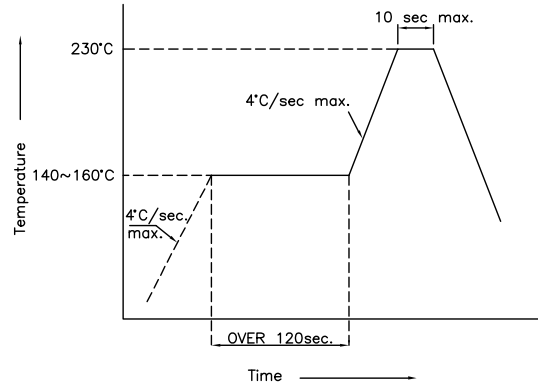
Super Bright Green

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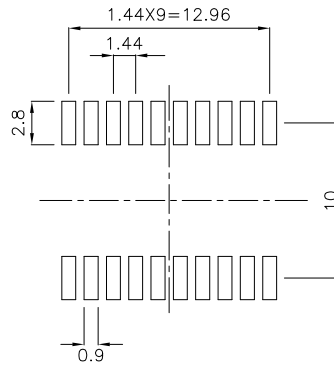


KPDC02-102 SMT Reflow Soldering Instructions

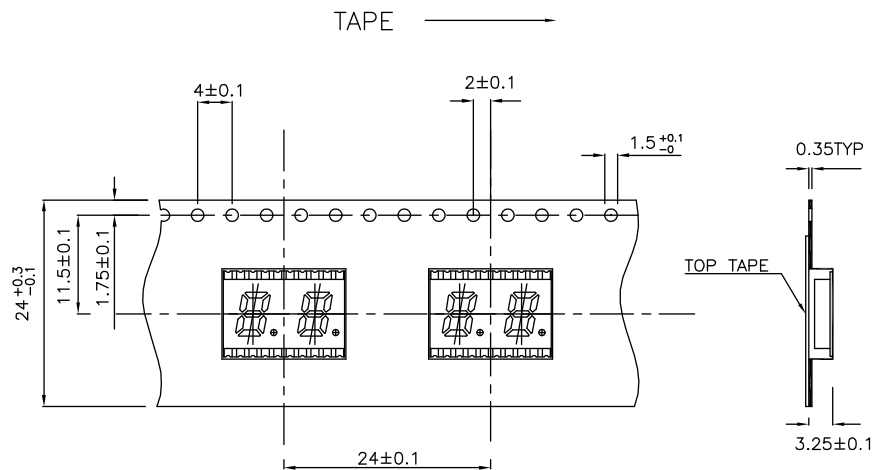
Number of reflow process shall be 2 times or less and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units : mm)



Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.