

APSC04-33GWW

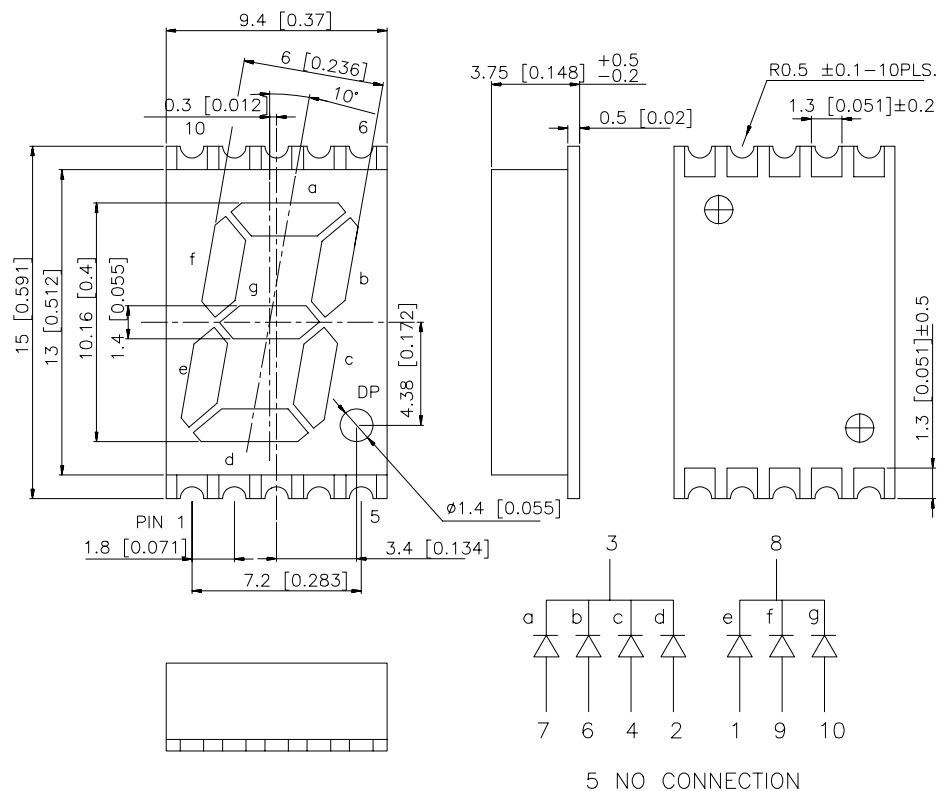
### Features

- 0.4INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE
- MECHANICALLY RUGGED.
- STANDARD: WHITE FACE, WHITE SEGMENT.

### Description

The 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).
2. Tolerance is  $\pm 0.25$  (0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10 mA		Description
			Min.	Typ.	
APSC04-33GWW	GREEN (GaP )	WHITE DIFFUSED	4.5	9.6	Common Cathode

Note:

1.  $\theta_{1/2}$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

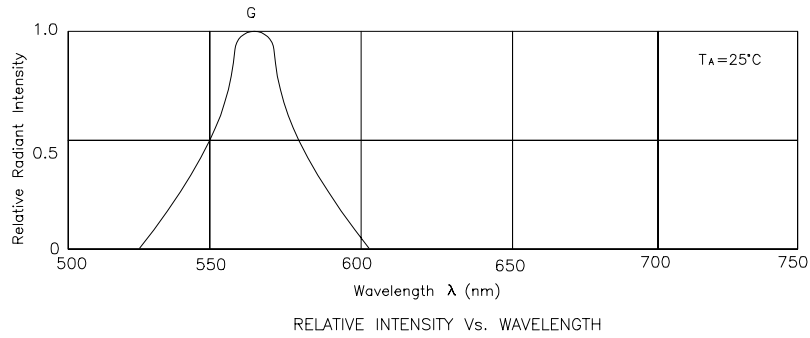
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{\text{peak}}$	Peak Wavelength	Green	565		nm	IF=20mA
$\lambda_D$	Dominant Wavelength	Green	568		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Green	30		nm	IF=20mA
C	Capacitance	Green	15		pF	VF=0V;f=1MHz
$V_F$	Forward Voltage	Green	2.2	2.5	V	IF=20mA
$I_R$	Reverse Current	Green		10	uA	VR = 5V

## Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

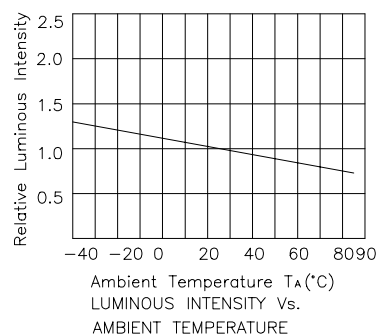
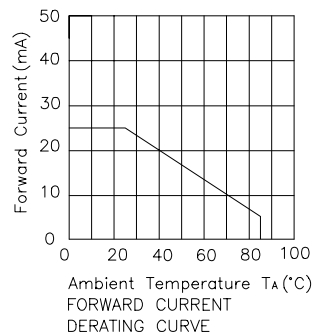
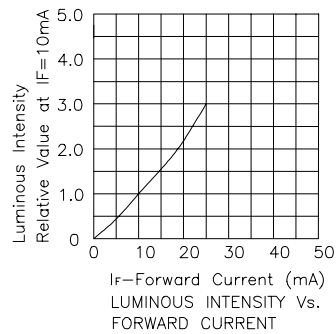
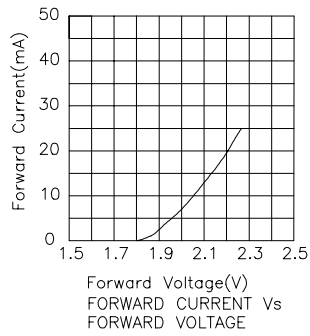
Parameter	Green	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

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

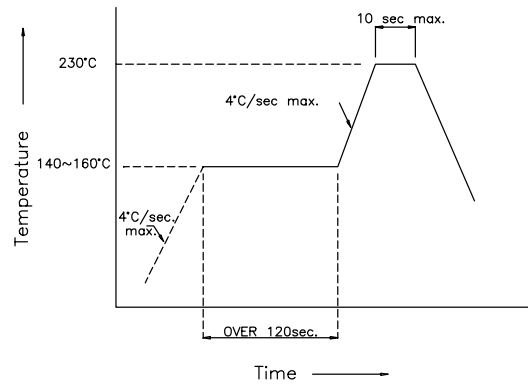


## Green APSC04-33GWW

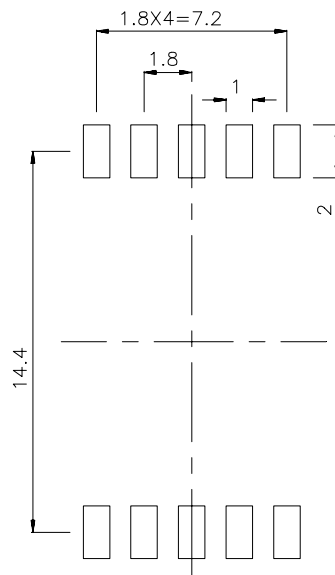


## APSC04-33GWW SMT Reflow Soldering Instructions

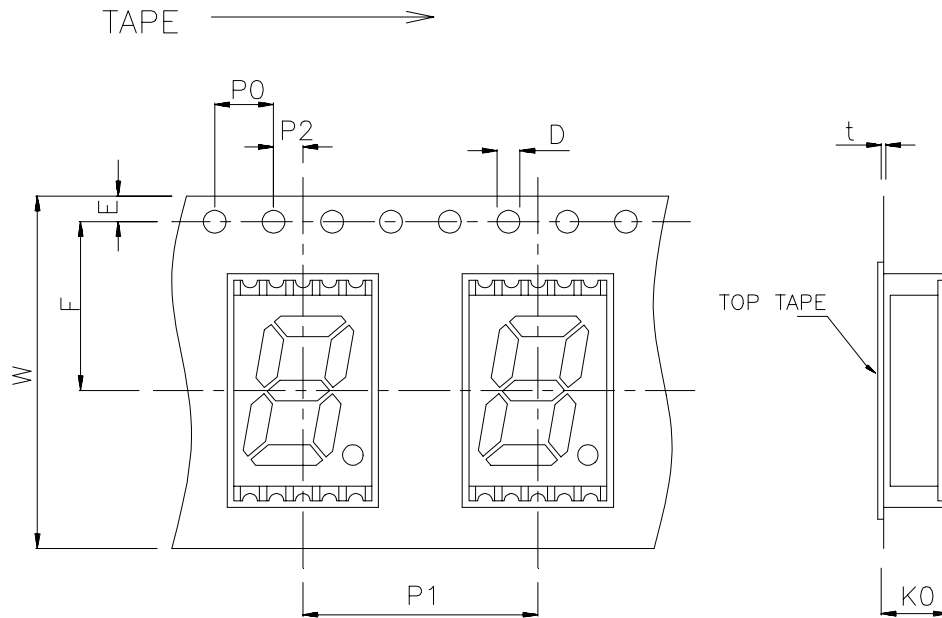
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



### Recommended Soldering Pattern (Units : mm)



**Tape Specifications**  
(Units : mm)



DIMENSIONS PER MILLIMETRES(INCHES)	
D	1.55[0.06]±0.05
E	1.75[0.069]±0.1
F	11.5[0.453]±0.1
P1	16[0.63]±0.1TYP.
P0	4.[0.157]±0.1TYP.
P2	2.0[0.079]±0.1TYP.
t	0.3[0.012]±0.1TYP.
K0	4[0.157]±0.1
W	24[0.945]±0.3