

SURFACE MOUNT DISPLAY

Part Number: ACPSA04-41PBWA/A

PRELIMINARY SPEC



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE **DEVICES**

Description

The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

Blue

Static electricity and surge damage the LEDS.

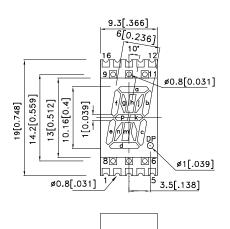
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

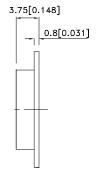
All devices, equipment and machinery must be electrically grounded.

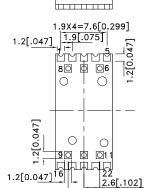
Features

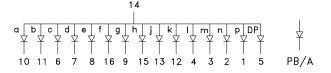
- 0.4 INCH CHARACTER HEIGHT.
- LOW CURRENT OPERATION.
- HIGH CONTRAST AND LIGHT OUTPUT.
- CATEGORIZED FOR LUMINOUS INTENSITY.
- MECHANICALLY RUGGED.
- GRAY FACE, WHITE SEGMENT.
- PACKAGE: 400PCS/REEL.
- MOISTURE SENSITIVITY LEVEL: LEVEL 4.
- RoHS COMPLIANT.

Package Dimensions& Internal Circuit Diagram









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

5.2[.205]

- Specifications are subject to change without notice.
 The gap between the reflector and PCB shall not exceed 0.25mm.





SPEC NO: DSAG4988 **REV NO: V.3 DATE: AUG/31/2007** PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED:** Joe Lee DRAWN: S.J.Liu ERP: 1361000046

Selection Guide

Part No.	Dice	Lens Type	lv (uc @ 10	,	Description
		,	Min. Typ.	Тур.	
ACPSA04-41PBWA/A	Blue (InGaN)	WHITE DIFFUSED	800	2900	Common Anode, Rt. Hand Decimal.

Note:

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	468		nm	IF=20mA
λD [1]	Dominant Wavelength	Blue	470		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	21		nm	IF=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.2	4.0	V	IF=20mA
IR	Reverse Current	Blue		10	uA	V _R =5V

Absolute Maximum Ratings at TA=25°C

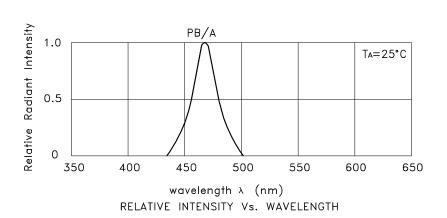
Parameter	Blue	Units	
Power dissipation	120	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	100	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		

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

REV NO: V.3 DATE: AUG/31/2007 PAGE: 2 OF 5 SPEC NO: DSAG4988 APPROVED: WYNEC **CHECKED:** Joe Lee DRAWN: S.J.Liu ERP: 1361000046

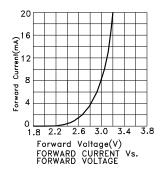
^{1.} Luminous intensity/ luminous Flux: +/-15%.

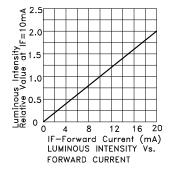
^{1.}Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

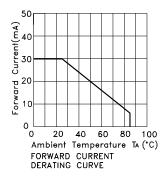


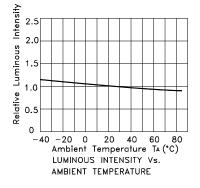
Blue

ACPSA04-41PBWA/A





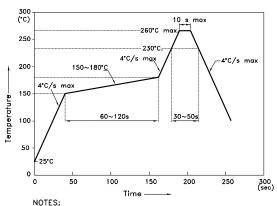




SPEC NO: DSAG4988 APPROVED: WYNEC REV NO: V.3 CHECKED: Joe Lee DATE: AUG/31/2007 DRAWN: S.J.Liu PAGE: 3 OF 5 ERP: 1361000046

ACPSA04-41PBWA/A

Reflow Soldering Profile For Lead-free SMT Process.



- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

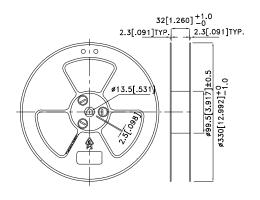
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
- to high temperature.

 3.Number of reflow process shall be 2 times or less.

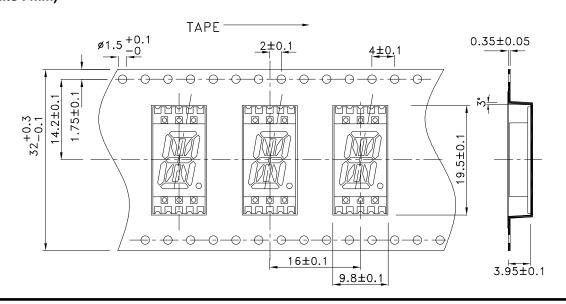
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

1.9X4=7.6 2.6X2=5.2 1.3 2.6 1.9 1.2

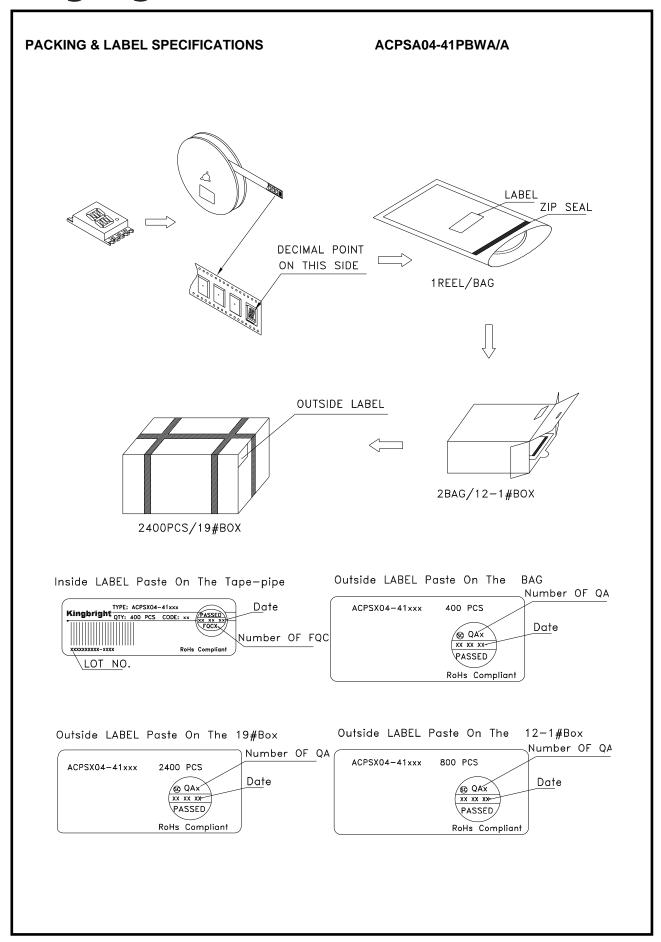
Reel Dimension



Tape Specifications (Units: mm)



SPEC NO: DSAG4988 APPROVED: WYNEC REV NO: V.3 CHECKED: Joe Lee DATE: AUG/31/2007 DRAWN: S.J.Liu PAGE: 4 OF 5 ERP: 1361000046



SPEC NO: DSAG4988 APPROVED: WYNEC REV NO: V.3 CHECKED: Joe Lee DATE: AUG/31/2007 DRAWN: S.J.Liu PAGE: 5 OF 5 ERP: 1361000046