

### 50mm (2.0 INCH) 5x7 DOT MATRIX DISPLAY

PRELIMINARY SPEC



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE

**DEVICES** 

Part Number: TA20-11PBWA/A

**BLUE** 

#### **Features**

- 2.0 INCH MATRIX HEIGHT.
- DOT SIZE 5mm.
- LOW CURRENT OPERATION.
- HIGH CONTRAST AND LIGHT OUTPUT.
- COMPATIBLE WITH ASCII AND EBCDIC CODES.
- STACKABLE HORIZONTALLY.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- CATEGORIZED FOR LUMINOUS INTENSITY.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE DOT.
- RoHS COMPLIANT.

#### Description

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

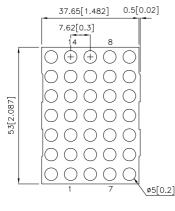
Static electricity and surge damage the LEDS.

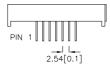
It is recommended to use a wrist band or

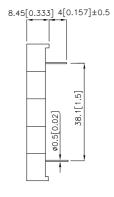
anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

### **Package Dimensions & Internal Circuit Diagram**







			13 3 21 C2			
PIN		Ϋ́	在	在	4	4
9	R1	+	4	4	4	
14	R2	Ť		1		
8	R3	<u> </u>	<u> </u>	字	<u> </u>	字
		4	<del> </del>	4	4	4
12,5	R4	¥	4	\$	4	4
1	R5	+	-	4	4	
7	R6	Ť		1		
2	R7	<u> </u>		<u> </u>	<u> </u>	<u> </u>

#### Notes:

- 1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.
- 2. Specifications are subject to change without notice.

SPEC NO: DSAF8005 APPROVED: J. Lu REV NO: V.2 CHECKED: Joe Lee DATE: AUG/15/2006 DRAWN: Y.L.LI PAGE: 1 OF 4 ERP:1332000999

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## **Selection Guide**

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
TA20-11PBWA/A	BLUE (InGaN)	WHITE DIFFUSED	4700	14500	Column Anode

## 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	3.3	3.8	V	Ir=20mA
IR	Reverse Current	Blue		10	uA	VR = 5V

## Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units
Power dissipation	110	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.

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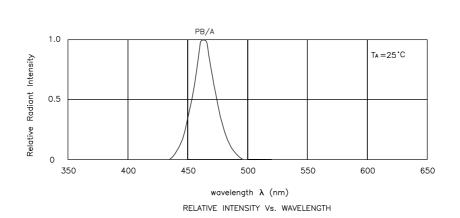
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Note: 1.Luminous Intensity / Luminous Flux: +/-15%.

<sup>1.</sup> Wavelength: +/-1nm.

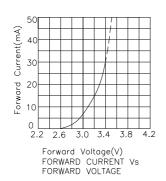
<sup>2.</sup> Forward Voltage: +/-0.1V.

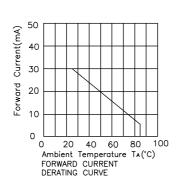
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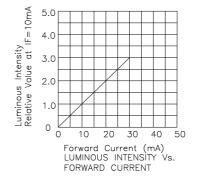


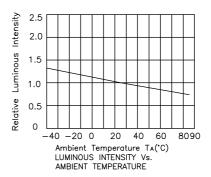
Blue

### TA20-11PBWA/A



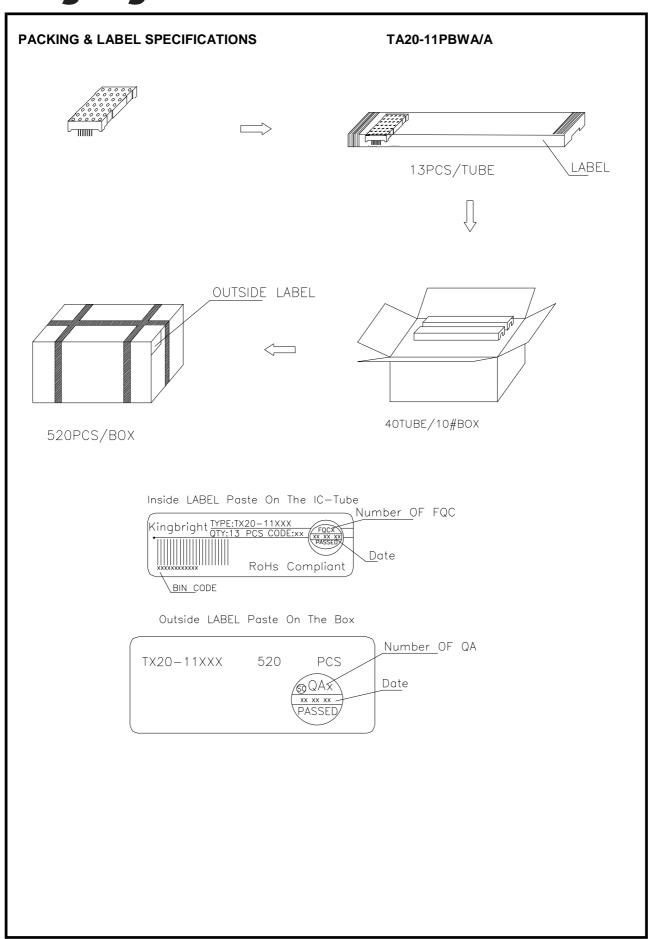






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