14.2mm (0.56INCH) SINGLE DIGIT NUMERIC DISPLAY

Part Number: SA56-51QBWA-D

Blue



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

Features

- 0.56 inch digit height.
- Low current operation.
- Excellent character appearance.
- Easy mounting on P.C. boards or sockets.
- Mechanically rugged.
- Standard : gray face, white segment.
- RoHS compliant.

Description

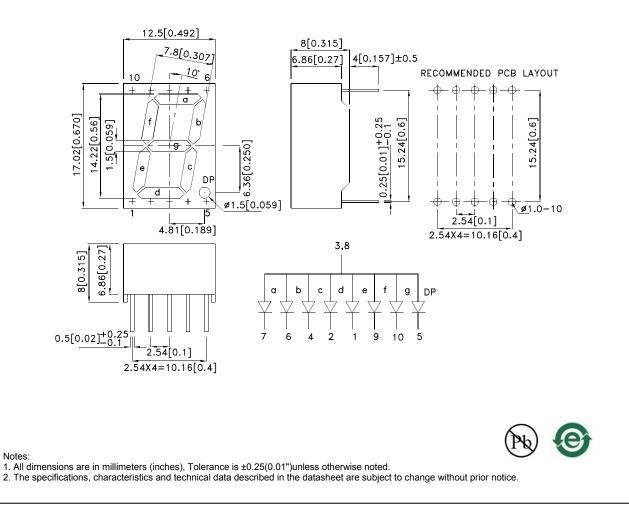
The Blue source color devices are made with InGaN Light Emitting Diode.

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



SPEC NO: DSAJ7978 APPROVED: WYNEC

DATE: NOV/27/2012 DRAWN: D.M.Su



Selection Guide									
Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description				
			Min.	Тур.	•				
SA56-51QBWA-D	Blue (InGaN)	White Diffused	3600	10000	Common Anode, Rt. Hand Decimal				

Notes:

Luminous intensity/ luminous Flux: +/-15%.
Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.		Тур.		Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	468	*460		nm	IF=20mA		
λD [1]	Dominant Wavelength	Blue	470	*465		nm	IF=20mA		
Δλ1/2	Spectral Line Half-width	Blue	25			nm	IF=20mA		
С	Capacitance	Blue	100			pF	VF=0V;f=1MHz		
Vf [2]	Forward Voltage	Blue	3.	.3	4.0	V	IF=20mA		
IR	Reverse Current	Blue			50	uA	VR=5V		

Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. * Wavelength value is traceable to the CIE127-2007 compliant national standards.

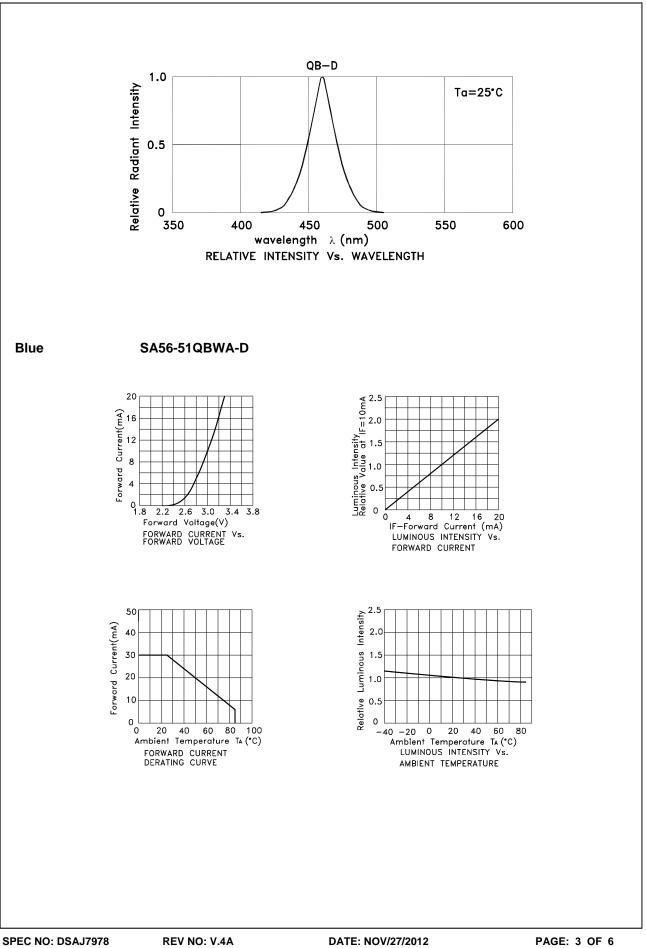
Absolute Maximum Ratings at TA=25°C

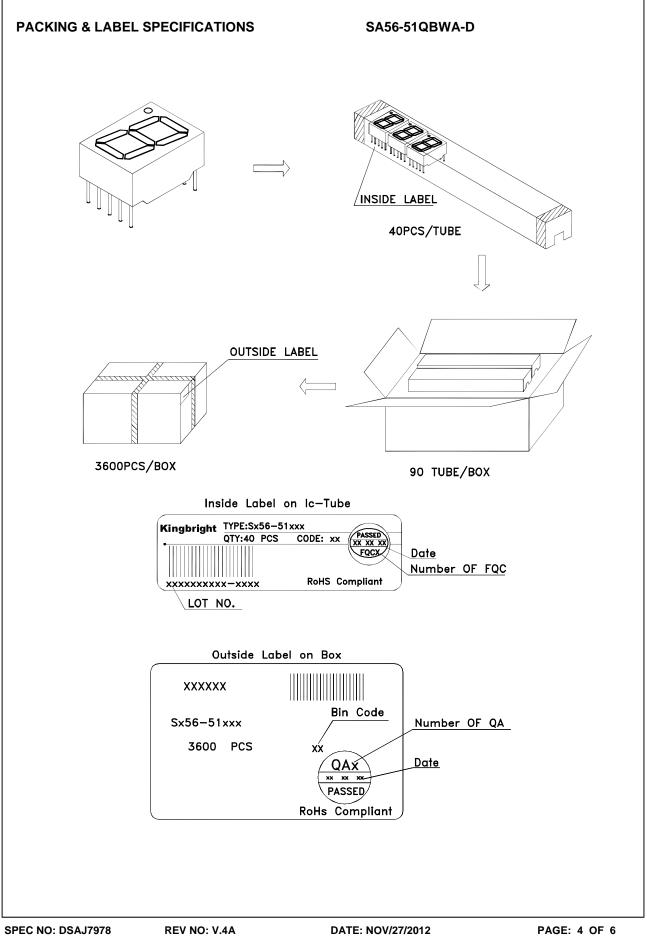
Parameter	Blue	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating / Storage Temperature	e -40°C To +85°C			
Lead Solder Temperature[2]	260°C For 3-5 Seconds			

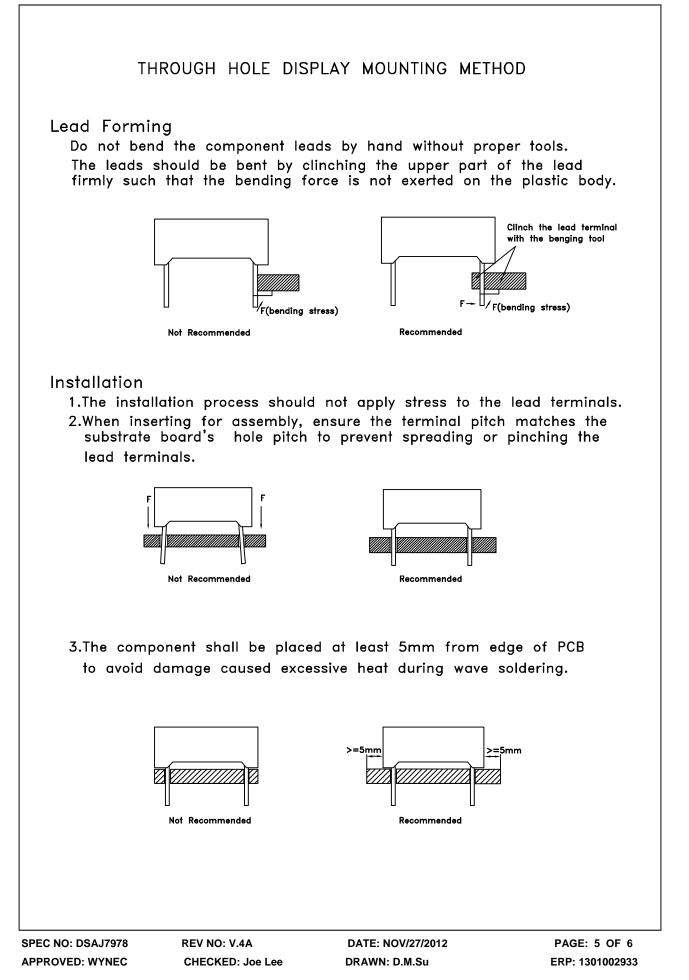
Notes:

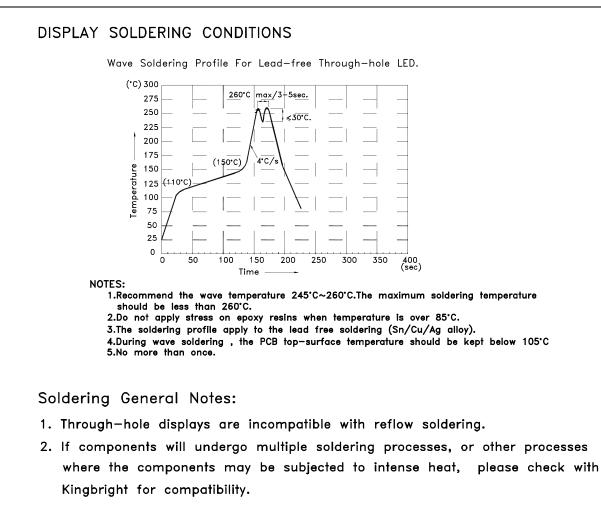
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.









CLEANING

1.Mild "no-clean" fluxes are recommended for use in soldering.

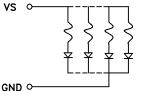
2. If cleaning is required, Kingbright recommends to wash components with water only. Do not use harsh organic solvents for cleaning, because they may damage the plastic parts .And the devices should not be washed for more than one minute.

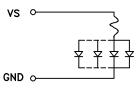
CIRCUIT DESIGN NOTES

1.Protective current-limiting resistors may be necessary to operate the Displays.2.LEDs mounted in parallel should each be placed in series with its own current-limiting resistor.

Recommended Set-up







Detailed application notes are listed on our website. http://www.kingbright.com/application_notes

DATE: NOV/27/2012 DRAWN: D.M.Su