

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

Features

- 0.8 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 200pcs/ reel
- Moisture sensitivity level : level 2a.
- RoHS compliant.

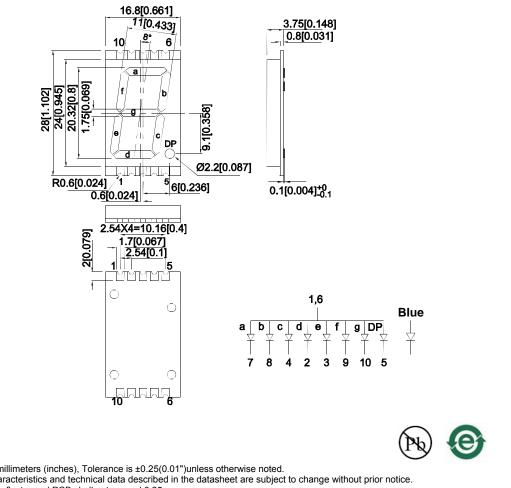
SURFACE MOUNT DISPLAY

Part Number: ACSA08-51QBWA/D Blue

Descriptions

- The Blue source color devices are made with InGaN Light Emitting Diode.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

Package Dimensions& Internal Circuit Diagram



Notes:

- 1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.
- 2. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
- 3. The gap between the reflector and PCB shall not exceed 0.25mm.

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Selection Guide									
Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description				
			Min.	Тур.	Decemption				
ACSA08-51QBWA/D	Blue (InGaN)	White Diffused	3600	8700	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	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	460		nm	IF=10mA
λD [1]	Dominant Wavelength	Blue	465		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	IF=10mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3	4.0	V	IF=10mA
IR	Reverse Current	Blue		50	uA	Vr=5V

Notes:

1.Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.
3.Wavelength value is traceable to the CIE127-2007 compliant national standards.
4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

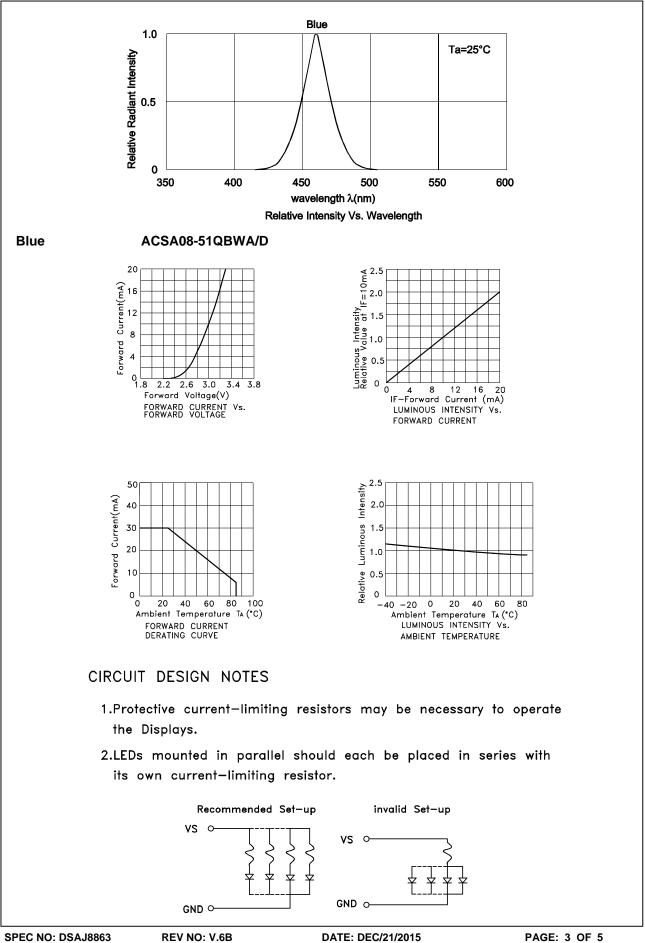
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units
Power dissipation	120	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Electrostatic Discharge Threshold (HBM)	250	IF=10mA
Reverse Voltage	5	V
Operating / Storage Temperature	ng / Storage Temperature -40°C To +85°C	

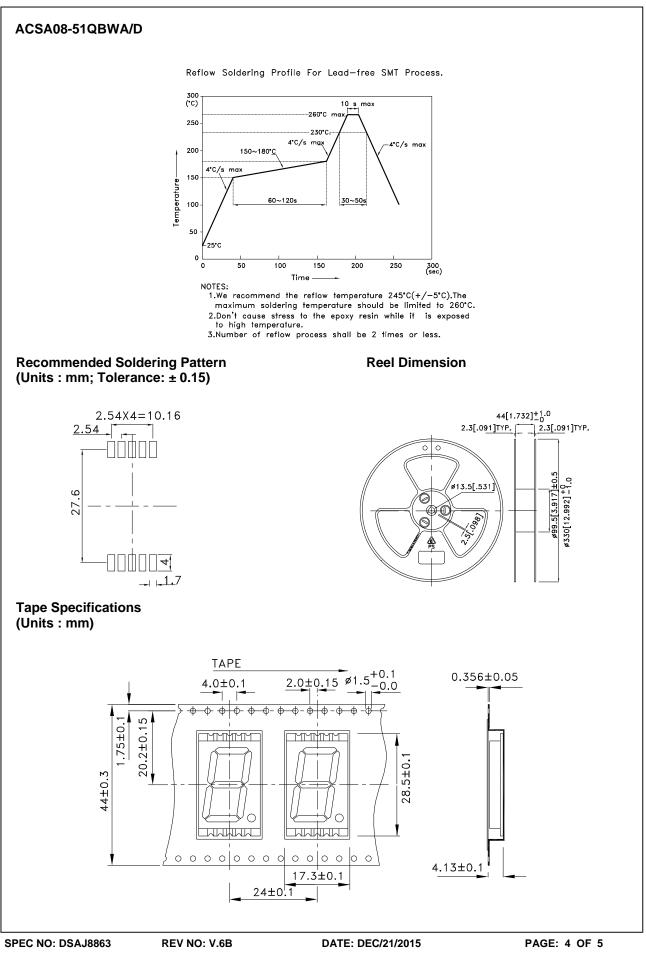
Note:

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

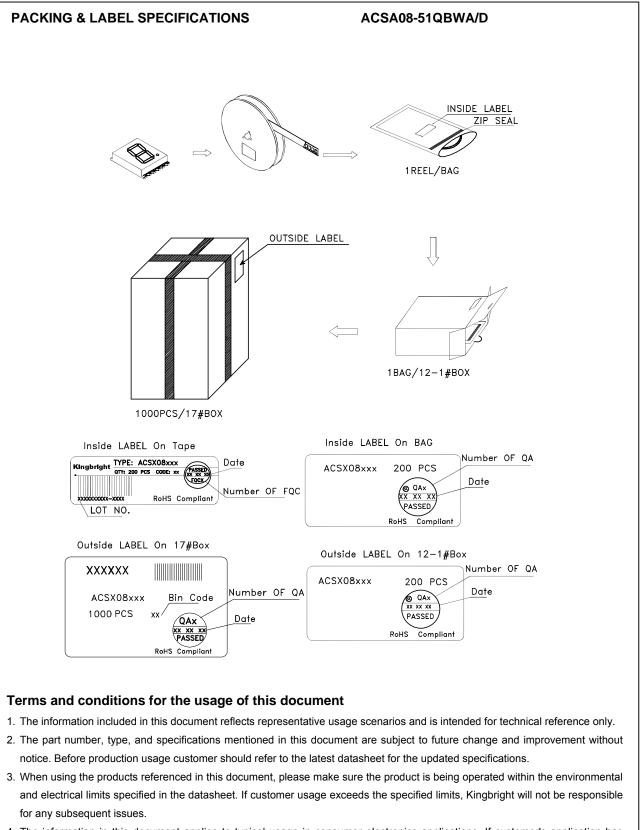
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- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
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