ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

### Features

- 0.56 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 400pcs/ reel.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

### SURFACE MOUNT DISPLAY

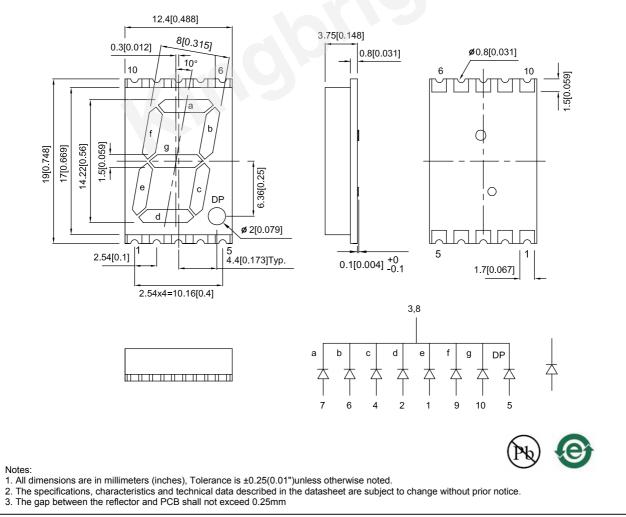
Part Number: KCSC56-136

Blue

### Descriptions

- The Blue source color devices are made with InGaN on SiC 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



SPEC NO: DSAG4371 APPROVED: Wynec REV NO: V.6B CHECKED: Joe Lee DATE: JUL/04/2016 DRAWN: L.T.Zhang PAGE: 1 OF 5 ERP: 1351000435

| Selection Guide |                           |                |                        |      |                                      |  |  |  |  |  |
|-----------------|---------------------------|----------------|------------------------|------|--------------------------------------|--|--|--|--|--|
| Part No.        | Emitting Color (Material) | Lens Type      | lv (ucd) [1]<br>@ 10mA |      | Description                          |  |  |  |  |  |
|                 |                           |                | Min.                   | Тур. | -                                    |  |  |  |  |  |
| KCSC56-136      | Blue (InGaN)              | White Diffused | 2200                   | 6600 | Common Cathode, Rt.<br>Hand Decimal. |  |  |  |  |  |

Notes:

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

### Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter                | Emitting Color | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|----------------|------|------|-------|-----------------|
| λpeak  | Peak Wavelength          | Blue           | 468  |      | nm    | IF=10mA         |
| λD [1] | Dominant Wavelength      | Blue           | 465  |      | nm    | IF=10mA         |
| Δλ1/2  | Spectral Line Half-width | Blue           | 21   |      | nm    | IF=10mA         |
| С      | Capacitance              | Blue           | 100  |      | pF    | VF=0V;f=1MHz    |
| Vf [2] | Forward Voltage          | Blue           | 3.05 | 4.0  | V     | IF=10mA         |
| lr     | Reverse Current          | Blue           |      | 10   | uA    |                 |

Notes:

1.Wavelength: +/-1nm.

2.Forward Voltage: +/-0.1V.

3.Wavelength value is traceable to CIE127-2007 standards. 4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

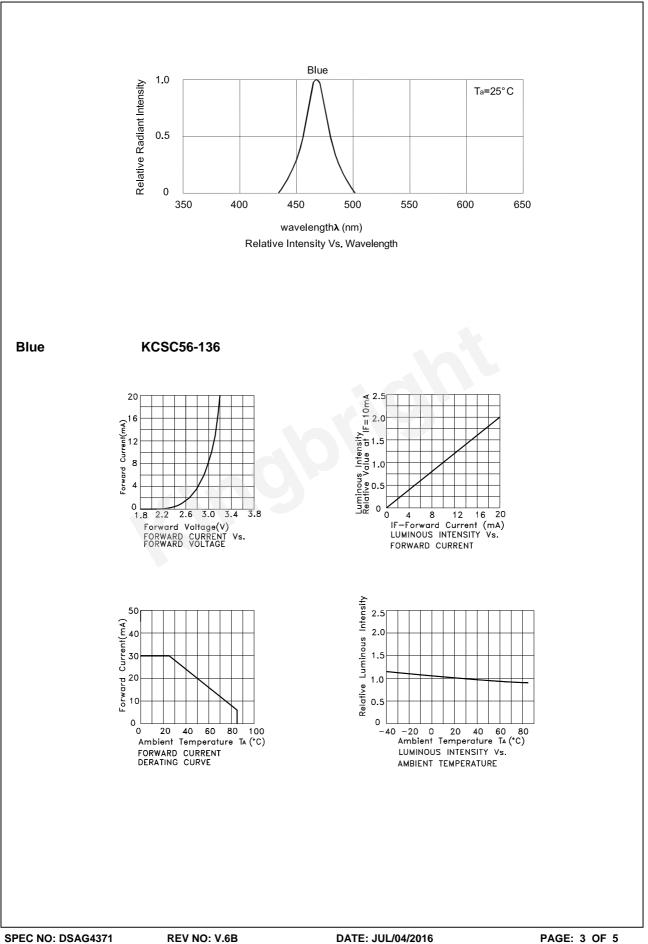
### Absolute Maximum Ratings at TA=25°C

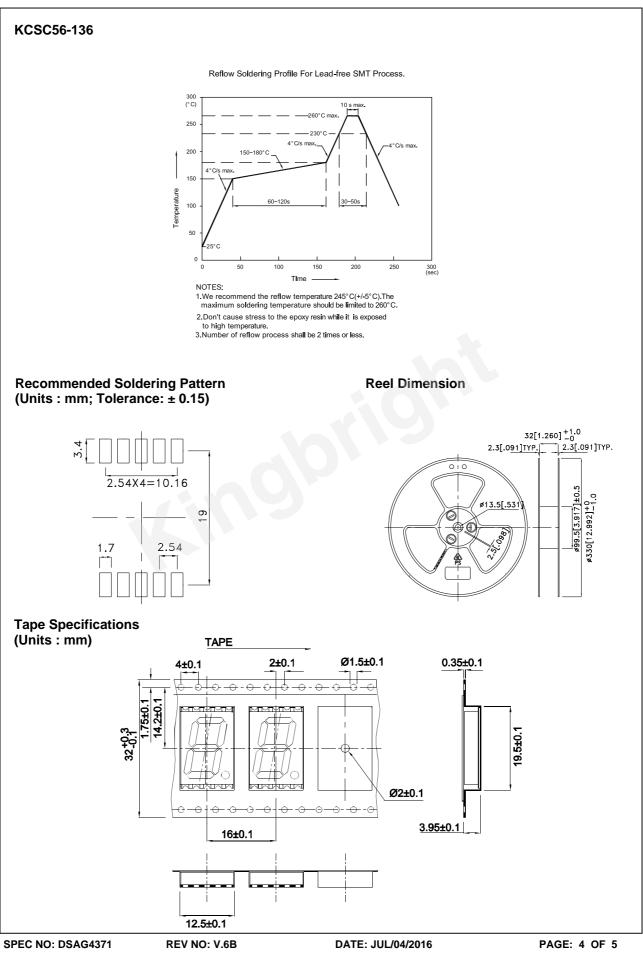
| Parameter                               | Values         | Units |  |
|---|----------------|-------|--|
| Power dissipation                       | 120            | mW    |  |
| DC Forward Current                      | 30             | mA    |  |
| Peak Forward Current [1]                | 100            | mA    |  |
| Electrostatic Discharge Threshold (HBM) | 1000           | V     |  |
| Reverse Voltage                         | 5              | V     |  |
| Operating / Storage Temperature         | -40°C To +85°C |       |  |

Notes:

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

Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



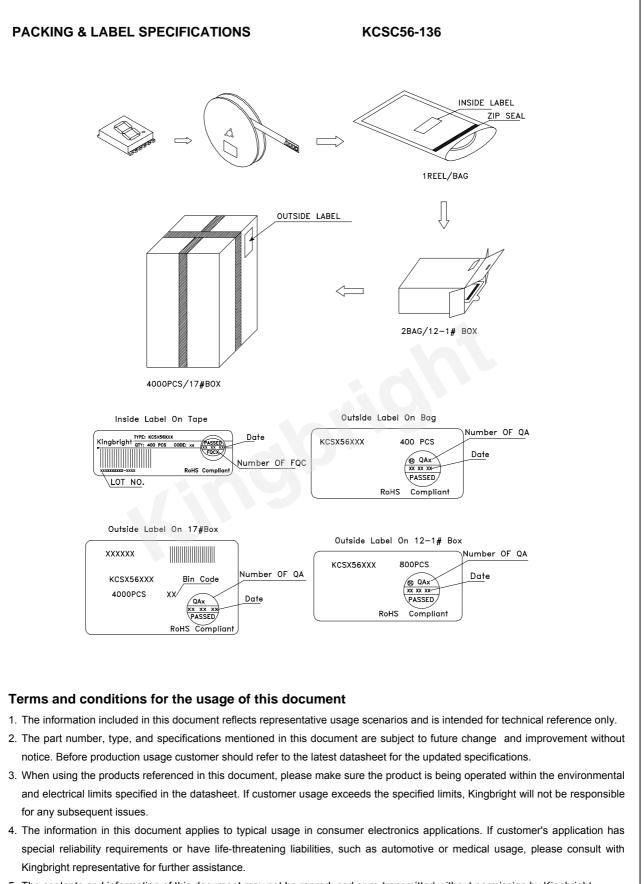


**APPROVED: Wynec** 

**CHECKED:** Joe Lee

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ERP: 1351000435



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