



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

DC56-11PBWA

BLUE

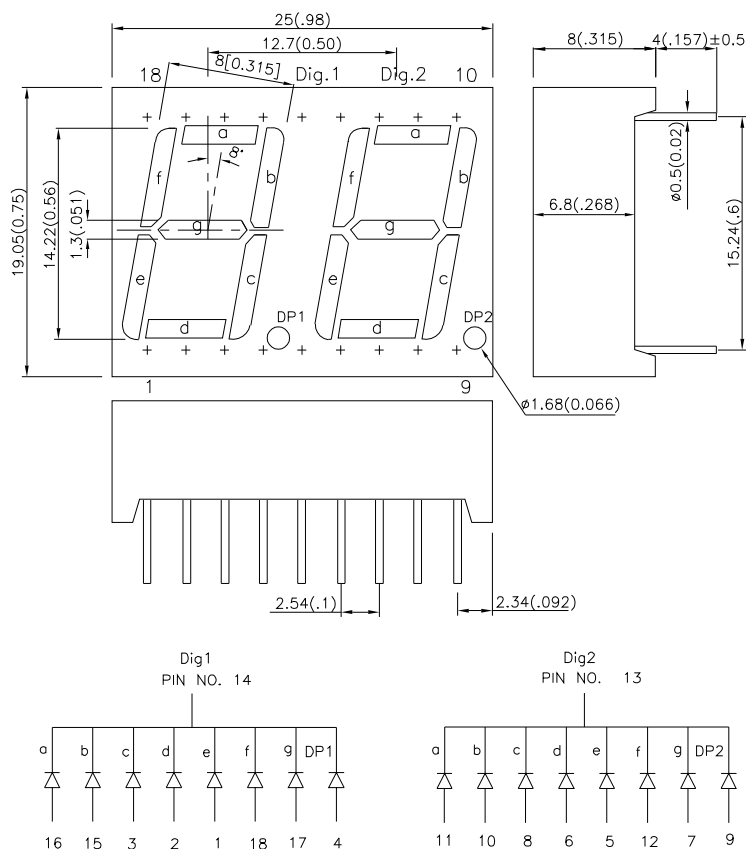
### Features

- 0.56 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- TWO DIGIT PACKAGE SIMPLIFIES ALIGNMENTS & ASSEMBLY.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE SEGMENT.
- 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



#### Notes:

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

## Selection Guide

| Part No.    | Dice         | Lens Type      | Iv (ucd)<br>@ 10mA |       | Description                       |
|-------------|--------------|----------------|--------------------|-------|-----------------------------------|
|             |              |                | Min.               | Typ.  |                                   |
| DC56-11PBWA | BLUE (InGaN) | WHITE DIFFUSED | 8000               | 18000 | Common Cathode, Rt. Hand Decimal. |

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

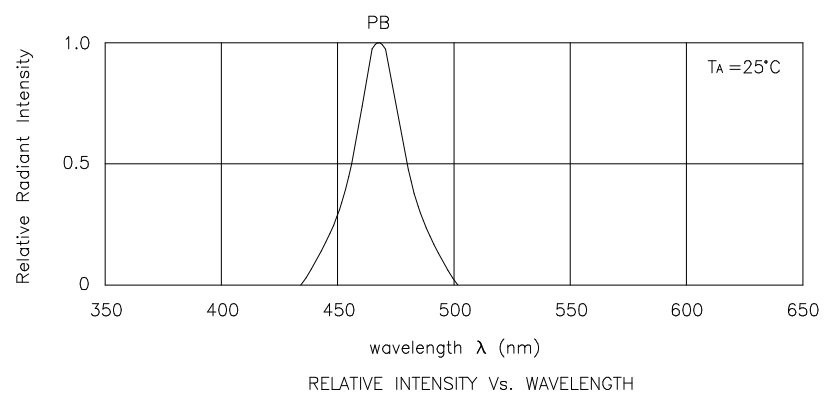
| Symbol                | Parameter                | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|--------------------------|--------|------|------|-------|-----------------|
| $\lambda_{peak}$      | Peak Wavelength          | Blue   | 468  |      | nm    | IF=20mA         |
| $\lambda_D$           | Dominant Wavelength      | Blue   | 470  |      | nm    | IF=20mA         |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Blue   | 25   |      | nm    | IF=20mA         |
| C                     | Capacitance              | Blue   | 65   |      | pF    | VF=0V;f=1MHz    |
| VF                    | Forward Voltage          | Blue   | 3.65 | 4.2  | V     | IF=20mA         |
| IR                    | Reverse Current          | Blue   |      | 10   | uA    | VR = 5V         |

## Absolute Maximum Ratings at TA=25°C

| Parameter                     | Blue                | Units |
|-------------------------------|---------------------|-------|
| Power dissipation             | 102                 | mW    |
| DC Forward Current            | 30                  | mA    |
| Peak Forward Current [1]      | 160                 | mA    |
| Reverse Voltage               | 5                   | V     |
| Operating/Storage Temperature | -40°C To +85°C      |       |
| Lead Solder Temperature [2]   | 260°C For 3 Seconds |       |

### Notes:

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



Blue

DC56-11PBWA

