 [Translated from Chinese (Simplified) to English - www.onlinedoctranslator.com](https://www.onlinedoctranslator.com/en/?utm_source=onlinedoctranslator&utm_medium=doc&utm_campaign=attribution)

1. Model (PART NO.): 5463AS BS
2. Description:

Emitted Color: red light

Appearance color (Lens Color): black and white glue

Dimensions (Max Size): 50.00\*19.00\*8.0

Absolute Maximum Ratings Drive detection is recommended

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Unit (Symbol) | limit value  (Maximum Rating) | Unit |
| Power Dissipation | Pd |  | mW |
| Pulse current (Peak Forward Current) | Ifp | 150 | mA |
| Direct Current (Continuous Forward Current) Forward )Current | Ifm | 20 | mA |
| Reverse Voltage | VR | 5 | V |
| Operating Temperature Range | Topr | -40 → +85 | °C |
| Storage Temperature Range | Tstg | -40 → +100 | °C |
| Static Voltage | Var |  | V |

\*Lead Sodering Temperature: 260℃ for 3 seconds

\*When the operating temperature is higher than 25°C, Ifm, Ifp and Id must be reduced; the current reduction rate is -0.36mA/°C (DC drive), or -0.86mA/°C

The power consumption reduction rate (pulse drive) is -0.75mW/°C. The working current of the product cannot be greater than 60% of the corresponding working temperature conditions Ifm or Ifp.

For operation above 25℃, The Ifm Ifp & Pd must be derated, the Curent derating is –0.36mA/℃ for DC

drive and -0.86mA/℃ for Pulse drive, the power dissipation is -0.75mW/℃. The product working current

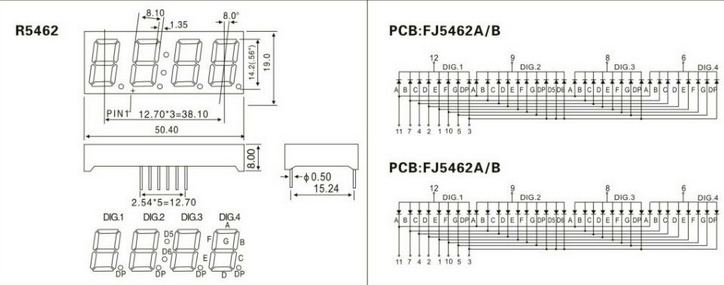
must not more than the 60% of the Ifm or Ifp according to the working temperature.

Optical-Electrical Characteristic It is recommended to use drive detection

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Test Conditions  (Test CONDITING) | Unit (Symbol) | Min | Type | Max | Unit |
| Luminous Intensity | IF=10mA | iv | 40.5 | 42.7 | 45.5 | Mcd |
| Forward Voltage | IF=10mA | VF | - | 1.99 | - | V |
| REVERSE Current | VR = 5V | IR | - | 20 |  | uA |
| Wavelength (Peak Wavelength) | IF=10mA | λp | 631.5 | 632.5 | 634.9 | nm |
| Bandwidth (Spectral Bandwidth) | IF=10mA | △λ | - | 40 | - | nm |
| View Angle | IF=10mA | 2θ1/2 | - |  | - | Deg. |

3. Mechanical Outline:

(Unspecified Tolerances is: X±0.2 Lighting Color: Red

COLOR:

4. Storage & Soldering Condions:

* Store with care. Storing the units in bad condition ● Pay attention to storage, if the storage condition is not good, the diaphragm will be lowered

will cause the reflector sheet and decrease it's adhesion to the reflector sheet (light guide plate).

adhesive power. Storage the products under the recommended storage conditions: temperature 25℃±10℃

condition :temperature ( 25℃ ± 10℃ ) and humidity 65℃CRH±20℃CRH

(65℃ CRH±20℃ CRH) our recommendation.

* The Soldering Temperature is 260±5℃ and Soldering ● The soldering temperature is 260℃±5℃, the soldering time is less than 3 seconds,

Time should be less than 3 sec, and soldering iron power is less than 30W.

power should be less than 30W.

* The soldering point should be farther than 1.6mm ● The soldering point should be farther than 1.6mm from the product body.

from boby.

Appearance Judgment Conditions

5. Appearance visual inspection conditions: 40W fluorescent lamp is used as light source and the distance between the product and the product is about 1 meter (ambient brightness) 200Lux) The visual distance between the inspector and the product is 25-30cm.

Standard: The size of black and white dots is 0.1≤￠＜0.15. At most 3 are allowed, and the distance must be greater than 1cm.

The size of black and white dots is 0.15≤￠＜0.20. At most 2 are allowed, and the distance must be greater than 1cm.

The size of black and white dots is 0.20≤￠＜0.25, at most one is allowed, scratches are ￠≤0.1mm, and the length is less than 1mm, and at most one is allowed; surface flower, film paper flower, when the product does not reflect light, and the luminous effect does not see this defect is acceptable.

6. Lighting effect inspection conditions: Visual inspection under the condition of ambient brightness < 9Lux, the sight distance should be 25-30cm.

Standard: The size of black and white dots is 0.1≤￠＜0.15. At most 3 are allowed, and the distance must be greater than 1cm.

The size of black and white dots is 0.15≤￠＜0.20. At most 2 are allowed, and the distance must be greater than 1cm.

The size of black and white dots is 0.20≤￠＜0.25, at most one is allowed, scratches are ￠≤0.1mm, and the length is less than 1mm, and at most one is allowed; surface flower, film paper flower, when the product does not reflect light, and the luminous effect does not see this defect is acceptable.

Dimensional detection conditions: According to the drawings, use measuring calipers, and pay attention to detecting human errors.

Electrical performance testing conditions: According to the drawings and processes, under the rated working voltage or constant current, perform the relevant content of the "QA Finished Product Inspection Method" function, and the products with pins must be tested for 5PCS tinning.

|  |  |  |  |
| --- | --- | --- | --- |
| Judgment category | Judgment range | MAJOR | MINOR |
| to make  Taste  check  test  sentence  Certainly  mark  allow | outside  view  check  test | 1. Film paper: uneven, crooked ≥0.25mm. 2. The pins are oxidized or the copper skin is dropped, or the tin peaks are not applied as required. 3. The strip is skewed, loose, the feet are short/long, the membrane paper is deformed, and it is lifted. 4. Product bending, deformation, scratches, burrs. | 1. The unevenness of the membrane paper leads to the exposure or the ultra-wide 0.25mm, which is less than 0.25mm and more than 0.15mm; dirty, wrinkled, etc. 2. There are fingerprints and water stains on the non-effective luminous area on the back of the product. |
| size  test | 1. The important dimensions such as length, width and thickness are out of tolerance ≥ 0.2mm, and other dimensions are out of tolerance by more than 0.25mm. 2. The film paper is too large to be more than 0.25mm. | 1. The size tolerance caused by virtual edges, burrs, etc. is less than 0.2mm and more than 0.1mm. 2. Dimensional tolerances smaller than critical defects. |
| Function  glow  Effect  an examination | 1. The luminous color of the die does not meet the drawing requirements. 2. Shiny, color/color difference, dark light, dark band are quite different from the sample. 3. The light leakage diameter of the film paper is ≥ 0.25. | 1. Slight color difference, dark light, dark band, dark spot. 2. Both ends glow unevenly. |

7. Quality and environmental protection assurance

★Compliant with ISO9001:2000 standard, certificate number: 01608Q10194R0S.

★Compliant with the requirements of ROHS 2009/95/EC directive, SGS number: CE/2008/B7139A.