

US7256486 vs. Seoul Semiconductor Z Power LED – Z7, Z7-F Series and all predecessor and successor models, all products containing the same or similar features as those identified in the accompanying charts, all products including or incorporating any of these products as components (such as luminaires, lighting fixtures, bulbs, or any other consumer product).

1 (Preamble)

A semiconductor device, comprising:



SEOUL SEMICONDUCTOR

Description

The Z-Power series is designed for high current operation and high flux output applications. It incorporates state of the art SMD design and low thermal resistant material.



The Z Power LED is ideal light sources for general illumination applications, custom designed solutions, automotive, large LCD backlights and high performance torches.

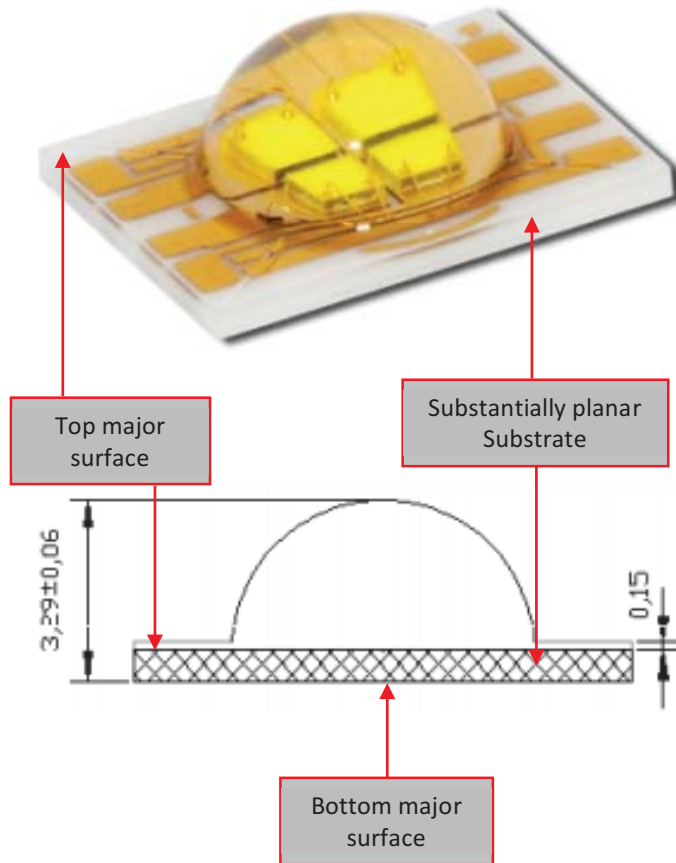
Applications

- General Torch
- Architectural lighting
- Task lighting
- Decorative / Pathway lighting
- Remote / Solar powered lighting
- Street lighting

Source: [http://www.seoulsemicon.com/ upload/Goods_Spec/SZW07A0A.pdf](http://www.seoulsemicon.com/upload/Goods_Spec/SZW07A0A.pdf) Page 3 of 23

1 (a):

a substantially planar substrate having opposed major surfaces;



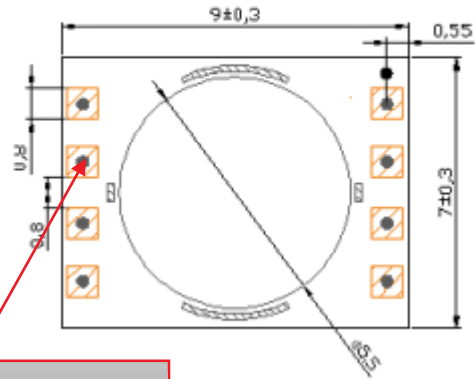
Source: http://www.seoulsemicon.com/_upload/Goods_Spec/SZW07A0A.pdf Pages 3, 5 of 23

Comment: *As shown in the image and schematic drawing, LED has a planar substrate having a top major surface and a bottom major surface (opposite major surfaces).*

1 (b):

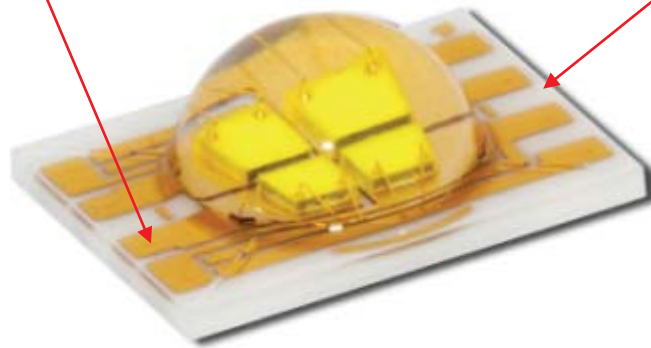
*an electrically
conductive mounting
pad located on one of
the major surfaces of
the substrate;*

Top View



Electrically conductive
mounting pad

Top Major
Surface

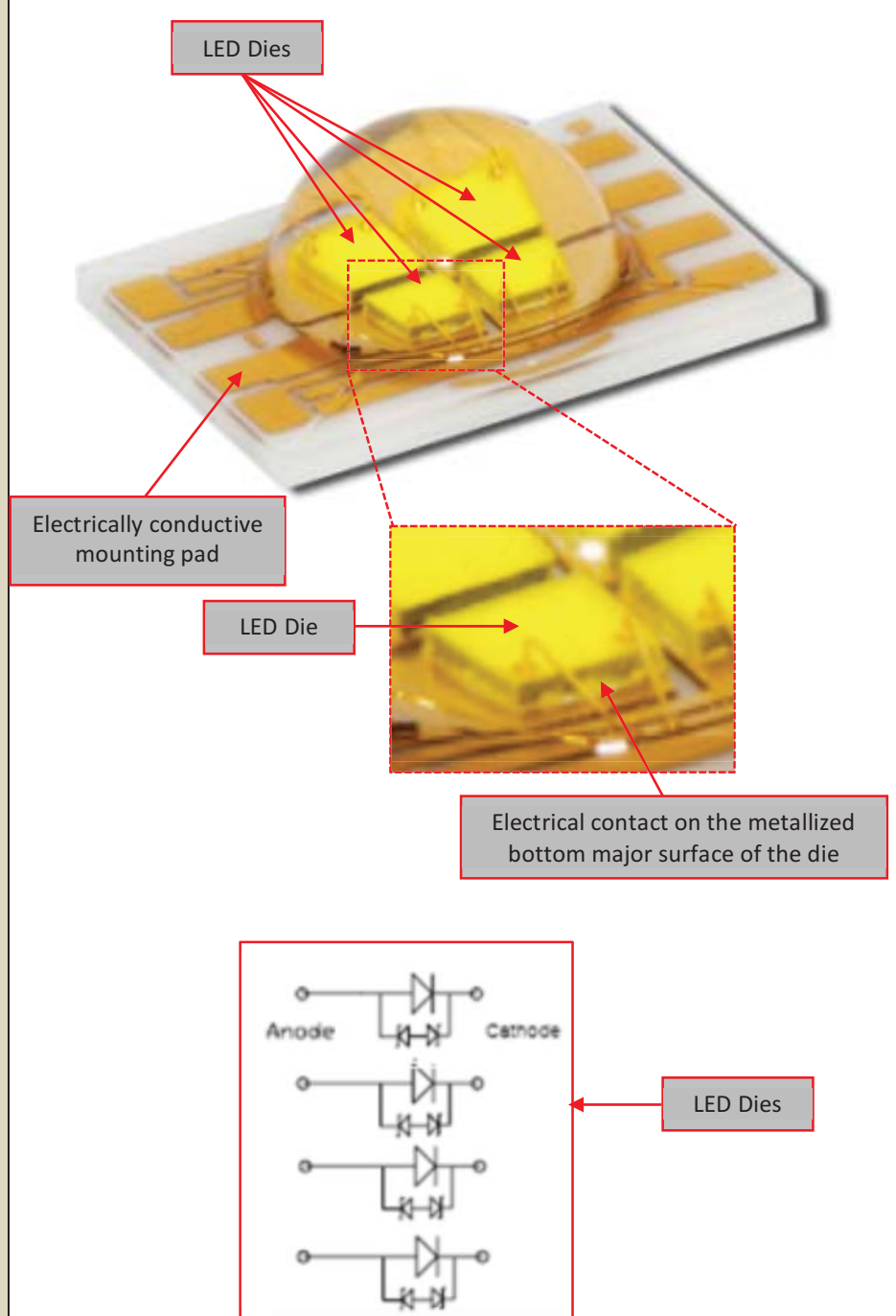


Source: http://www.seoulsemicon.com/_upload/Goods_Spec/SZW07A0A.pdf Pages 3, 5 of 23

Comment: *As shown in the figure, the top major surface of the substrate includes one or more mounting pads.*

1 (c):

a light emitting diode (LED) having a metallized bottom major surface that is mounted on the electrically conductive mounting pad, the metallized bottom major surface comprising one of an anode and a cathode of the LED;

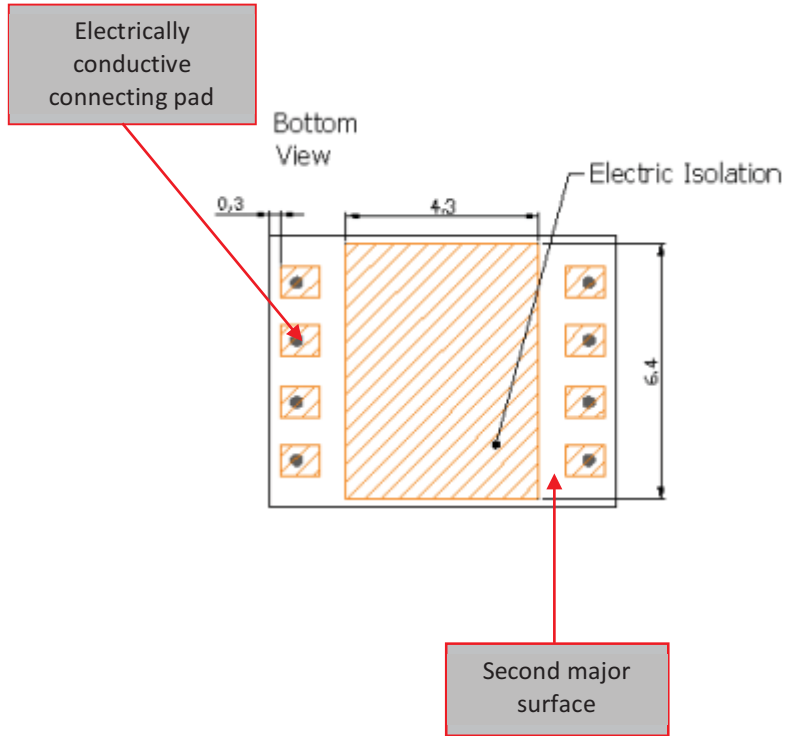


Source: http://www.seoulsemicon.com/upload/Goods_Spec/SZW07A0A.pdf Page 3 and 5 of 23

Comment: *The metallized bottom surface of LED die includes an electrical contact (Anode or Cathode) which is further connected to the mounting pad. The other electrical contact is present on the top surface of the LED die.*

1 (d):

*a first electrically
conductive connecting
pad located on the
other of the major
surfaces of the
substrate; and*



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Comment: *The figure shows the connecting pads present on the bottom major surface of the substrate.*

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