

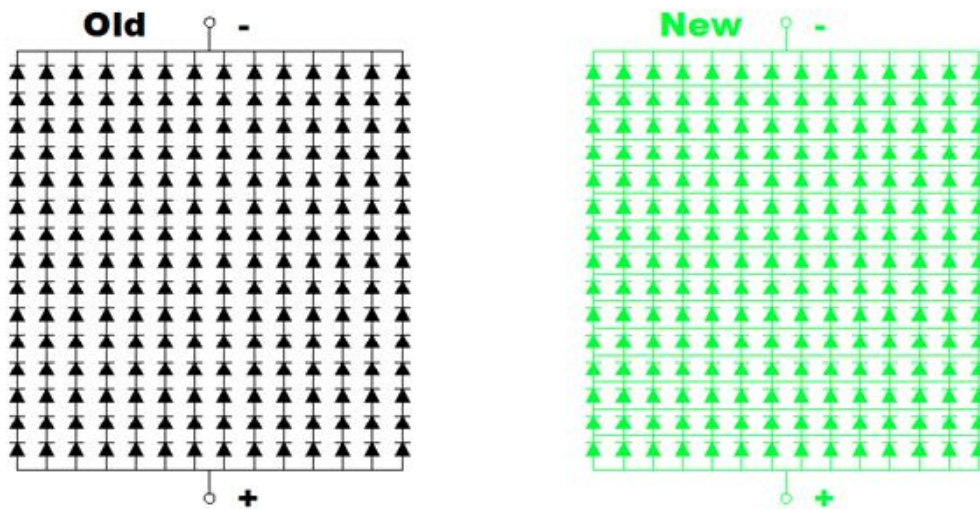
Orphek New120W LED Technology



1.New Look

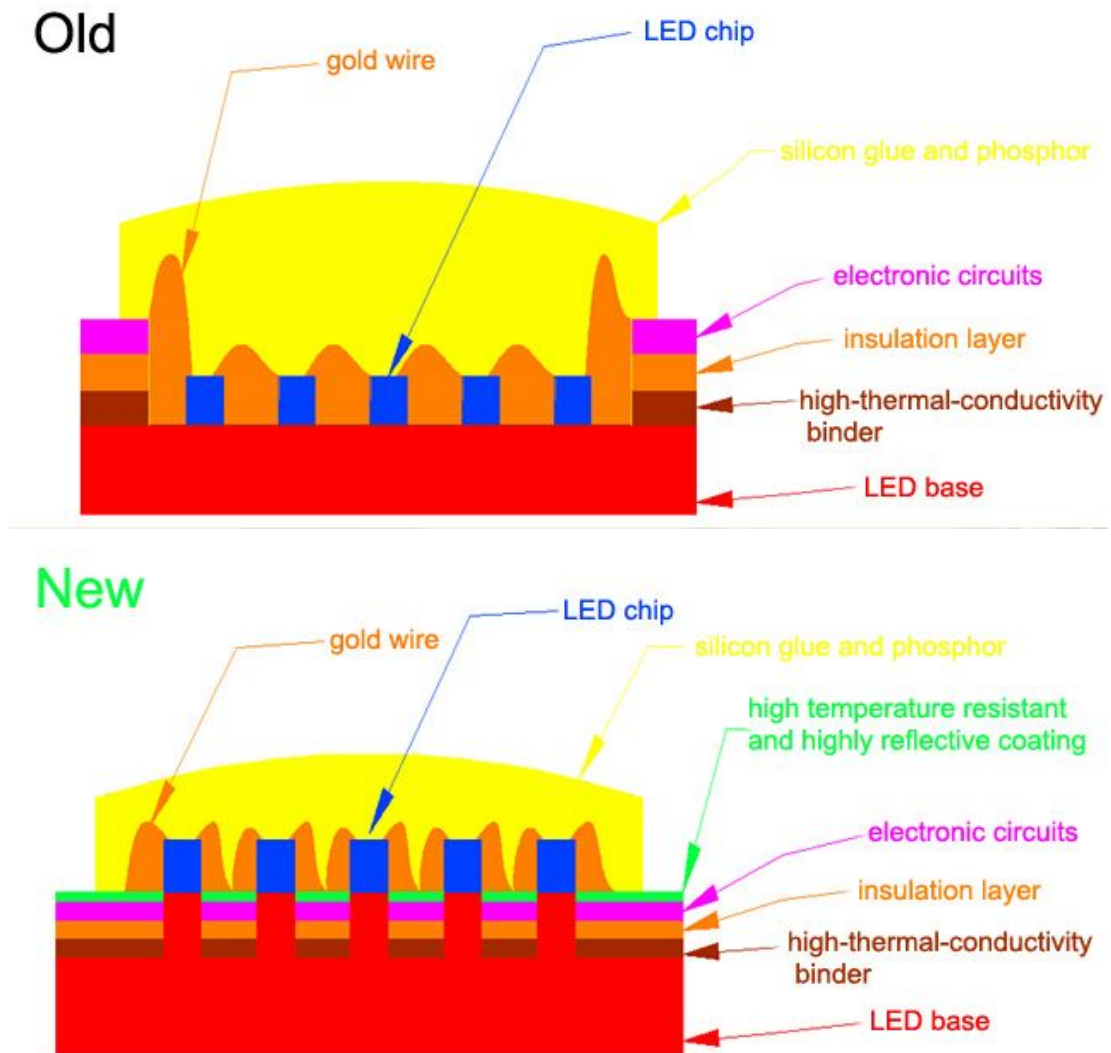
The surface of the new LED (except the die bonding and gold wire bonding area) is covered in a high temperature resistant and highly reflective white coating,so the surface of the LED won't be oxidized change to brown color like the old type LED.

2.New electronic circuits



The new LED electronic circuits designed to series-parallel mixed mode, the series connected after parallel connected, and one group of wire bonded on the copper base, the other bonded on the chips, it is much more safe and high stability than the old type LED. If one chip has a problem, the current still can flow to other chips of the same row, it won't make the whole row can't work. Then all the rows still can work well.

3.New structure



The big difference of the structure is the bonding joints of the gold wire, the old type LED just put the joints on the LED chips, so the temperature is very high, and when the silicon glue expands too much with heat, it will be easy to break the gold wire. This is why the New type LED is designed to put the joints on the LED base, so it can transfer the heat from the base directly, then the heat won't kill the LED.

4.All the chips of the New white LED come from the USA original factory,not from the foundry.The performance of the LED chips are more stable.

5.The New type LED use 1.5mil gold wire,it is much more strong than the normal LED,it is use only 0.9mil. And also change the USA silicon glue to Japanese silicon glue.This can bear much more heat.