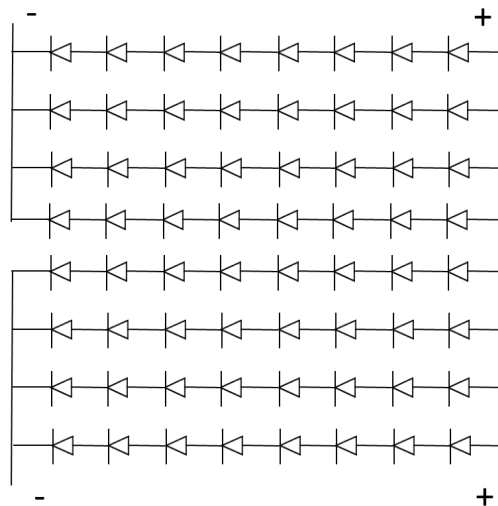


### Electrical Characteristics

2 group of 4x8, or 2x16, or other customer-defined circuitry. By default, it is the 2 group of 4x8, i.e. two separated and identical circuitry; each circuitry has 4 lines, each line has 8 LED chips connected in series; the 4 lines are connected in parallel at the ends.



The silver conducting layer is about 25 - 30  $\mu\text{m}$  in thickness; its area is maximized to increase the electrical conductivity and thermal conductivity. The solder mask layer thickness is 12 - 15  $\mu\text{m}$  in thickness.

### Thermal Characteristics

Aluminum nitrite (AlN) substrate, with thermal conductivity of  $\cong 170 \text{ w/m.k}$ .

### Optical Characteristics

The top plate with cavity is stainless steel of 304 SS, with mirror surface finish.