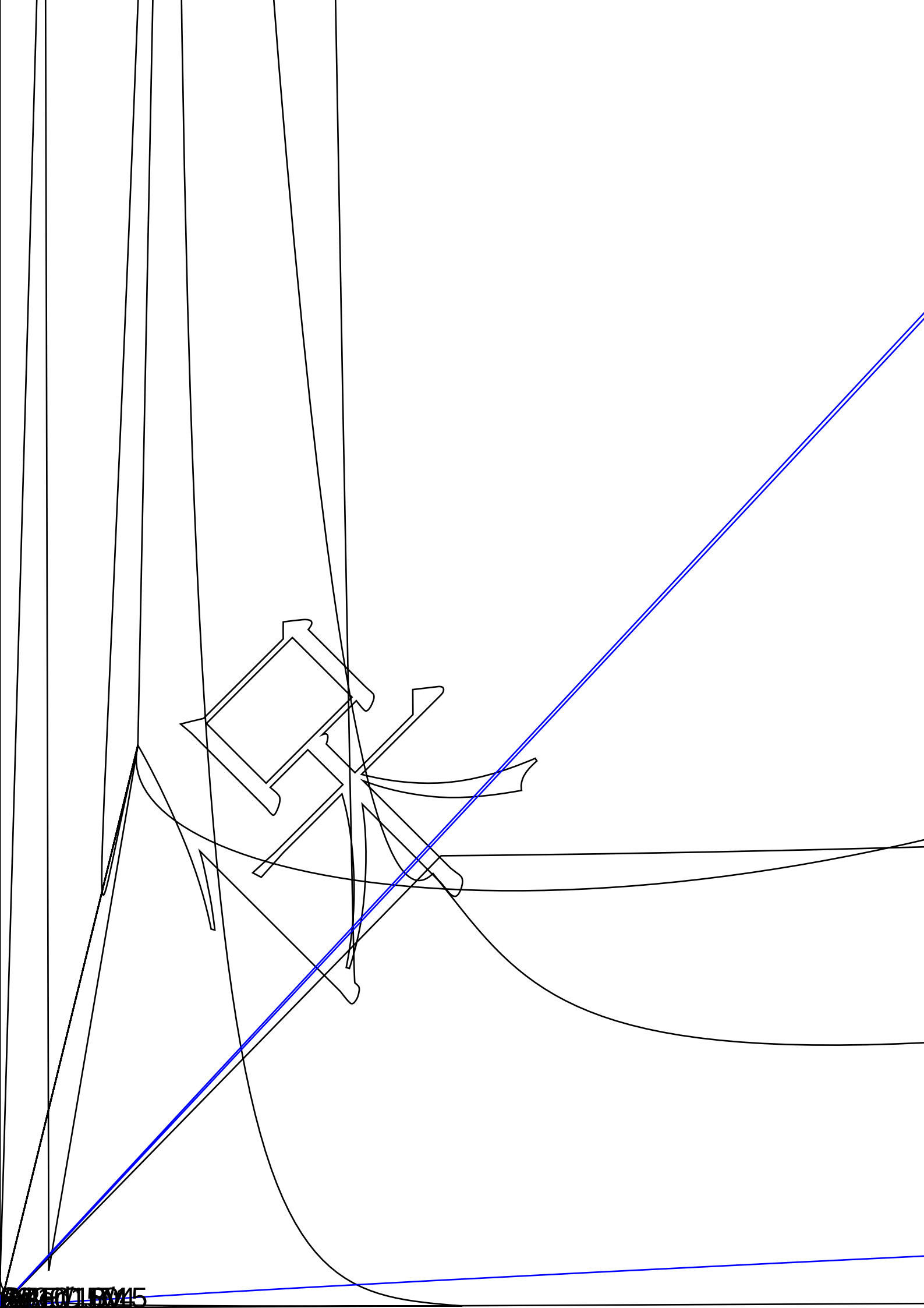

Absolute Maximum Ratings at Ta=25℃

Parameter	Maximum Rating	Unit
Power Dissipation	150	mW
Reverse Voltage	30	V
Electrostatic Discharge (HBM)*2	8000	V
Moisture Sensitivity Level*1	4	
Operating Temperature	-40~+85	
Storage Temperature Range	-40~+100	
IR Reflow Temperature	260℃ for 10 Seconds MAX.	
Hand Soldering Condition	300℃ for 3 Seconds MAX.	

1. Storage and operating:
   (1). Storage requirements before vacuum bag opened: Temperature<30℃, Humidity<65%RH;
   (2). Check air leakage and vacuum bag damage before opened. If there is any issue found, check the humidity indicator card immediately after bag opened:
      a. If color changes on “10% circle” of the humidity indicator card only and not the circles of 20% and above, components can be used without additional handling;
      b. If color changes on both 10% and 20% circles but not the circles of 30% and above, components must b dehumidified according to the conditions of bullet (5);
      c. If color changes on 10%, 20%, and 30% circle or above, the product should be returned to the supplier fo high temperature dehumidification;
   (3). After bag opened, manual soldering or reflow process must follow the following requirements:
      a. Complete soldering / reflow within 72 hours;
      b. Requirements of working environment: Temperature<30℃, Humidity<60%RH;
   (4). If the working condition is outside (3)a requirement, the components must be dehumidified according to the conditions of bullet (5);
   (5). Low temperature dehumidification: temperature 60±5℃, at least 24 hours;
   (6). Shelf life: 180 days. If it’s over 180 days from the production date on the package label, the components must b dehumidified according to the condition of bullet (5). If customer is unable to dehumidify, return components to LIGHT for dehumidification.
2. Caution in ESD:
   Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.