

1. 2.0 inch Bicolor Red & Green 5x7 Dot Matrix LED Display



Electro-optical Characteristics (Ta = 25°C)

PART NUMBER	DICE MATERIAL (COLOR)	PEAK WAVELENGTH (nm)	VF (V) TYP	Reverse current IR(uA)	LUMINOUS INTENSITY / SEGMENT AVERAGE (IF = 10mA) IV(mcd)	
LED-2057ASRG	RED	630—635	1.8—2.0	≤5	160—180	Common
	GREEN	575—585	1.8—2.0	≤5	380—400	Anode
LED-2057CSRG	RED	630—635	1.8—2.0	≤5	160—180	Common
	GREEN	575—585	1.8—2.0	≤5	380—400	Cathode

Absolute Maximum Rating (Ta = 25°C)

Maximum power consumption	Maximum forward current	Positive pulse peak current	Reverse voltage	Welding temperature	Working environment temperature	Storage temperature
PM=80MW	IFM=30MA	IFP=75MA	5V	260°C(<5S)	-25°C--+85°C	-30°C--+85°C

Matters needing attention

Instructions for use

(1) the working current is best not more than 20mA, the recommended DC 10-20mA; as a result of the design and the use of need, need to use ultra low current, current is not less than 5mA, because if the current performance is lower than this, LED will be changed, such as color will appear 5~10nm brightness drift, serious differences.

(2) the working environment temperature are less than 60, the case of electricity, such as high temperature operation must be good heat dissipation. Ensure long term work.

(3) the device can not be too close to the heating component, working conditions can not exceed the limit of its provisions.

Clean

(1) do not use organic solvents (e.g. acetone, water that day, trichloroethylene) to wash or wipe the surface of the module, because of some chemical damage on the colloid surface and cause fade, easy to cause gum cracking or spot is not normal, available ethanolwipe, time at room temperature does not exceed 1 minutes.

LED welding conditions

(1): soldering iron (maximum 40W) tip temperature is less than 300 DEG C; the welding time is less than 3 seconds; the welding position of at least 2 mm from the gel.

(2): dip soldering the maximum temperature of 260 DEG C; dip time less than 5 seconds; dip position at least 2 mm from the gel.

Electrostatic protection

(1) static and current sharp increase will cause damage to the LED, the InGaN series use anti-static devices, such as anti-static clothing, anti-static gloves, anti-static caps, anti-static shoes, in order to prevent the friction in the production process of electricity.

DEVICE DIAGRAM (unit:mm)

1. 尺寸单位为mm，除特别说明外，允许公差 ±0.25mm；
2. 每个PIN脚的斜度可能有 ±5° 。

