

5mm Pure Green Super Bright LED Lamps S500TG2D-C

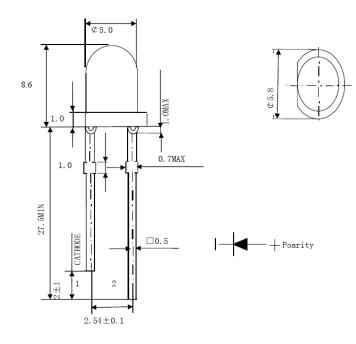
- 5 mm with Super Bright Green dice •
- Encapsulated with Milky Lens package •
- * Two leads •

Absolute Maximum Ratings :

Parameter	Maximum Rating	Unit			
Peak Forward Current	120	mA			
Continuous Forward Current	20	mA			
Operating Temperature Range	-20° C to $+75^{\circ}$ C				
Storage Temperature Range	$-40^{\circ}C + 100^{\circ}C$				
Lead Soldering Temperature	260° C for 5 seconds				
Electro-Optical Characteristics ($Ta = 25^{\circ}C$)					

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Parameter Radiant	Test Condition	Symbol	Min.	Тур.	Max.	Unit
Forward Voltage	If = 20mA	Vf	2.80	3.1	3.4	V
Reverse Current	Vr = 5V	Ir			10	uA
Luminous Intensity	If = 20mA	Iv	1000		2500	mcd
Spectral Bandwidth	If = 20mA	Δλ		35		nm
Wavelength	If = 20mA	Λd	520	525	530	nm
Half View Angle	If = 20mA	2 θ 1/2		80		deg

Package



Notes:

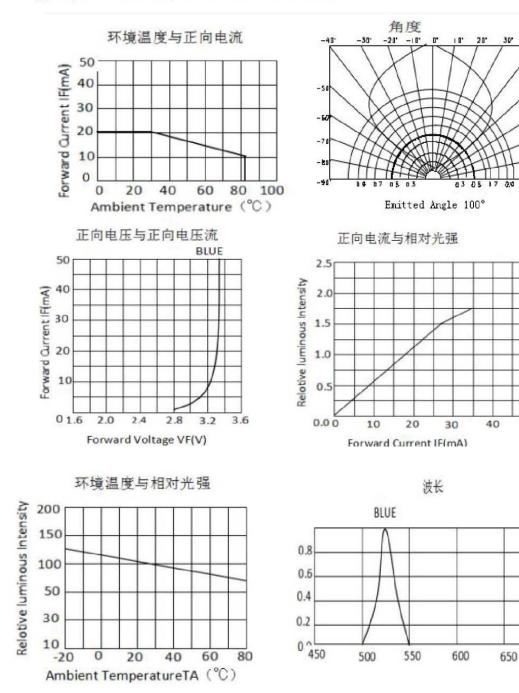
1. All dimensions are in millimeters.

2. Tolerance is \Box 0.25 unless otherwise noted.



40'

Typical photo electricity characteristic curve chart





Precautions For Use :

Over – current – proof

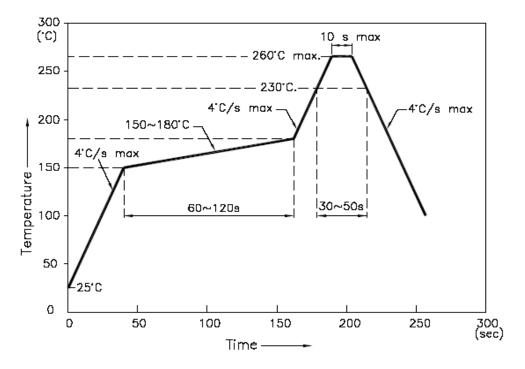
Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen)

Storage

1. The operation of temperature and R.H. are : 5° C ~ 30° C , 60° K.H. Max.

- 2. Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a dampproof box with desiccating regent. Considering the tape life, we suggest our customers to use our products within 1.5 year (from production date).
- 3. It's recommended to bake before soldering when the package is unsealed after 72 hrs. The condition is : $60^{\circ}C \pm 5^{\circ}C$ for 15hrs.

■ Reflow Temp/Time



NOTES:

- 1. We recommend the reflow temperature 245 °C(±5 °C).the maximum soldering temperature should be limited to 260 °C.
- 2. dont cause stress to the epoxy resin while it is exposed to high temperature.
- 3. Number of reflow process shall be 2 times or less.



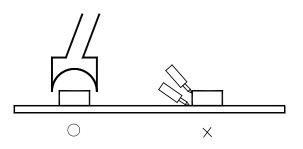
■Soldering iron

Basic spec is \leq 5sec when 260°C. If temperature is higher, time should be shorter

 $(+10^{\circ}C \rightarrow -1 \text{sec})$. Power dissipation of iron should be smaller than 20W, and temperatures should be controllable .Surface temperature of the device should be under $230^{\circ}C$.

Rework

- 1. Customer must finish rework within 5 sec under 260° C.
- 2. The head of iron can not touch copper foil
- 3. Twin-head type is preferred.



■ Avoid rubbing or scraping the resin by any object, during high temperature, for example reflow solder etc.