# 規格承認書

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:	AL998G
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	: :

簽程:		客戶確認簽程:		
工程:	胡瑞明	工程:		
品管:	王德力	品管:		
日期:	2021-2-18	日期:		

## Features:

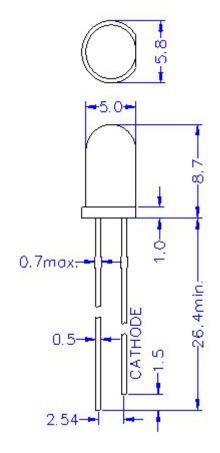
- 1. Wide range of collector current
- 2. High photo sensitivity
- 3. Small junction capacitance
- 4. Pb free
- 5. The product itself will remain within RoHS compliant version
- 6.Lens color: Green

### Descriptions

- The device is a phototransistor in miniature
  DIP package which is flat top view lens
- 2. The device is Spectrally matched to visible and infrared emitting diode

## Applications:

- 1. Remote Control.
- 2. Automatic Control System.



## ■ Absolute Maximum Ratings(Ta=25°C)

Parameter	Maximum Rating	Unit	
Power Dissipation	100	mW	
Collector- Emitter Voltage	30	V	
Emitter- Collector Voltage	5	V	
Operating Temperature	-45℃~+85℃		
Storage Temperature Range	-45℃~+100℃		
Lead Soldering Temperature	260℃ for 5 seconds		

 $<sup>^{*1}</sup>$ Condition for is I<sub>FP</sub> pulse of 1/10 duty and 0.1 msec width.

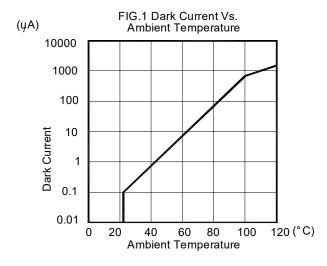
## ● Optical- Electrical Characteristics (@TA=25°C)

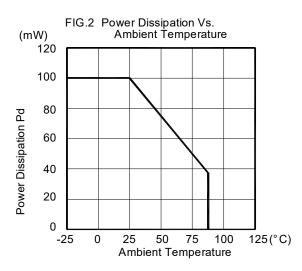
Parameter 参数	Symbol 符号	Rating 数值	Unit 单 位
Power Dissipation 耗散功率	PD	100	mW
Reverse Voltage 反向耐压	Vrp	5	V
Forward current 正向电流	IF	30	mA
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.) 峰值电流(1 / 10duty 周期,脉宽 0.1ms。)	IF(Peak)	50	mA
Operating Temperature Range 工作温度范围	Topr.	-35 to +80	$\mathbb{C}$
Storage Temperature Range 储存温度范围	Tstg.	-40 to +85	$^{\circ}$
ESD Withstand limit 静电耐受极限	ESD	3000	V
Soldering temperature焊锡温度	Tsol	260℃Wave soldering, 3mm out of physical body, ≤3S 波峰焊 260℃离胶体 3 mm,小于或等于 3 秒	$^{\circ}$ C

## Typical Electrical & Optical Characteristics(Ta=25°)典型的光电特性(Ta=25°)

Items 项目	Symbol 符 号	Condition 条件	Min 最小	Typ 典型	Max 最大	Unit 单位
Forward Voltage 正向电压	VF	IF =20mA	3.0		3.4	V
Dominant Wavelength 主波长	λd	IF =20mA	520	525	530	K
Luminous Intensity 发光强度	Iv	IF =20mA	150	300		mcd
View Angle 法向角度	2 θ 1/2	IF =20mA		30		Deg
Reverse Current 反向电流	IR	Vr=5V			10	μА

## Typical Optical-Electrical Characteristic Curves





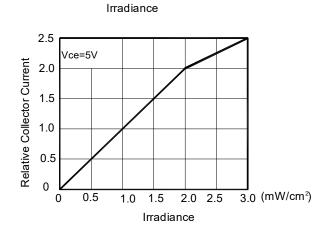


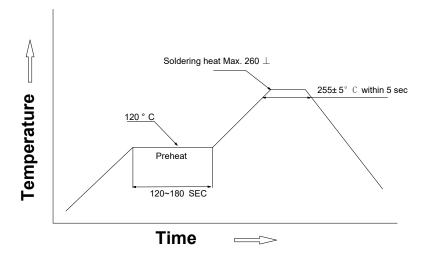
FIG.4 Relative Collector Current Vs.

## Soldering Condition:

Preheating: 120℃,Within120℃~180℃sec.

Operation heating : 255  $^{\circ}\text{C} \pm 5\,^{\circ}\text{C}$  Within 5 sec.260  $^{\circ}\text{C}$  (Max)

Gradual Cooling (Avoid quenching).



- 1. Reflow soldering should not be done more than two times.
- 2. When soldering, do not put stress on the LEDs during heating.
- 3. After soldering, do not warp the circuit board.

#### Use matters needing attention

- store and use where there is no force causing transformation or change in quality
- · store and use where there is no extreme humidity
- in order to prevent damage from static electricity make sure that the human body and the Soldering iron are connected to ground before using
- Please from the bottom of the resin for welding for more than 2 mm
- Dip soldering: please below 260 degrees, 5 seconds to complete welding
- Soldering iron: please below 350 degrees, 3 seconds to complete welding
- · Please avoid correct position after welding
- When welding in the lead frame please don't put pressure on the heated condition
- When the circuit board is installed, the mounting hole distance is consistent With the lead frame