

山东长期供应F7mm毫米红光食人鱼LED

产品名称	山东长期供应F7mm毫米红光食人鱼LED
公司名称	莱芜市银辉光电科技有限公司
价格	.00/PCS
规格参数	品牌:国产 型号:G07RC01 应用范围:发光模组
公司地址	莱芜市高新区鹏泉东大街156号
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产品详情

品牌	国产	型号	G07RC01
应用范围	发光模组	结构	点接触型
材料	磷铟砷化镓GaAsInP	封装形式	直插型
封装材料	树脂封装	功率特性	小功率
频率特性	低频	发光颜色	红色
LED封装	无色透明封装(T)	出光面特征	三角形
发光强度角分布	散射型	正向直流电流IF	20 (A)
最高反向电压	8 (V)		

专业制造，长期稳定供货，有现货，保质量，同类产品最优价格

特征：高亮度，大发光角度

主要应用范围：发光模组

详细参数参阅以下说明书

product specifications
type : 7mm piranha red led
part number: g07rc01
lens color: water clear
features:

- 1 . long operating life
- 2 . instant light
- 3 . low voltage operated
- 4 . cool beam,safe to the touch
- 5 . more energy efficient than incandescent and most halogen lamps
- 6 . widely used in the lighting , industrial and electronics products.

package outline dimension:

notes:

- 1、 all dimensions are in millimeters ;
- 2、 tolerances are $\pm 0.1\text{mm}$,unless otherwise noted.

typical electrical & optical characteristics (ta=25)

part number : g07rc01

absolute maximum ratings (ta=25)						
parameter		symbol	value			
forward current		if	20			
reverse voltage		vr	5			
power dissipation		pd	80			
soldering temperature		tsol	260(for 5 seconds)			
operating temperature range		top	-25~+80			
storage temperature range		tstg	-30~+80			
peak pulsing current		ifp	130			
(1/8 duty f=1khz)						
electrostatic discharge		esd	>3000			
electr-optical characteristics(ta=25 ,if=50ma)						
parameter	test condition	symbol	value			
			min	typ		max
wavelength	if=30ma	d	620	---		630
forward voltage	if=30ma	vf	1.8	---		2.4
luminous intensity	if=30ma	iv	600	---		800
luminous flux	if=30ma		3.0	---		4.0
viewing angle at 50% iv	if=30ma	2 1/2	---	140		---
reverse current	vr=5v	ir	---	5		---

part number : g07rc01

typical electro-optical characteristics curves

reliability test items and conditions:

no.	test item	test condition	sample size	
1	dc operation life	if=dc20ma temp:room temperature test time:1000hrs	22	
2	hight temperature	temp.:+85	22	
	hight humidity	rh=85%hr test time:1000hrs		
3	thermal shock	-35 ----~----+85 20min 10s 20min test time:300cycles	22	
4	hight temperature storage	hight temp.:+85 test time:1000hrs	22	
5	low temperature storage	low temp.: -35 test time:1000hrs	22	
6	temperature cycle	-35 ----~----+100 15min 5min 15min test time:300cycles	22	
7	reflow soldering	operation heating: 260 (max.) within 10seconds(max.)	22	

judgement criteria of failure for the reliability

iv:below 50% of the initial value

vf:over 20% of the upper limit value

ir:over 2 times of the upper limit value

note:measurement should be taken between 2 hours and after the test leds have been returned to

normal ambient condition after completion of each test.

part number : g07rc01

precautions for use:

1. temperature in use

since the light generated inside the led needs to be emitted to outside efficiently , a resin with high light transparency is used, therefore, additives to improve the heat resistance or moisture resistance(silica gel,etc) which are used for semiconductors products such as transistors cannot be added to the resin.

consequently, the heat resistant ability of the resin used for led is usually low,therefore, please be careful of the following points:

avoid applying external force, stress and excessive vibration to the resins and terminals at high temperature. the glass transition temperature of epoxy resin used for the led is approximately 120-130 . if the temperature exceeding the limit, the coefficient of linear expansion of the resin doubles or more compared to that at normal temperature and the resin will be softened.

and if some external force or stress is applied at that time, it may cause a wire damage.

2. soldering

after soldering, avoid applying external force, stress and excessive vibration until the products down to the room temperature (the same to terminal leads).

3. designing

care must be taken to provide the current limiting resistor in the circuit so as to drive the led within the rated figures, also caution should be taken not to overload led with exorbitant voltage at the turning on and off of the circuit.

when using the pulse drive care must be taken to keep the average current within the rated figures, also the circuit should be designed so as to be subjected to reverse voltage when turning off the led.

4. storage

in order to avoid the absorption of moisture, it is recommended to solder led as soon as possible after unpacking the sealed bags.

5. anti-static electricity

as the blue, green, white and purples are sensitive to the esd, so during the handling, soldering , testing and packing process the anti-static measurements must be applied. otherwise the led will be damaged.

