

承 認 書

SPECIFICATION FOR APPROVAL

客 戶:

CUSTOMER

品 名: 0805紅綠雙色LED

DESCRIPTION

型 號: HQ-0805RGC

MODEL

日 期: 12.04.11

DATE

承 制 方

MANUFACTURER :

使 用 方

USER:

制 表 DRAFTING	審 核 CHECK	核 準 APPROVE
李 麗		

核 準 APPROVE	簽 章

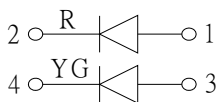
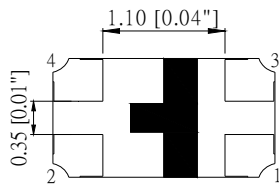
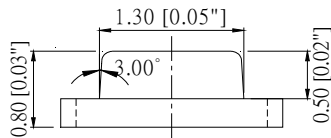
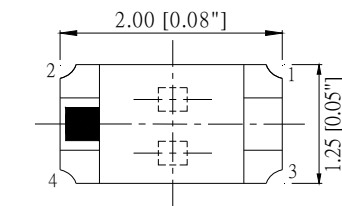
Features

- 2.0mm x 1.25mm SMT LED, 0.8mm thickness
- Low power consumption
- Wide view angle
- Package: 3000pcs/reel
- RoHS Compliant

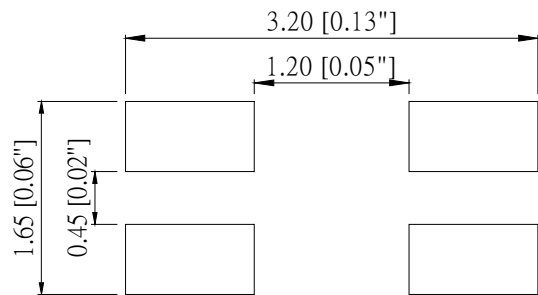
Applications

- Ideal for back light and indicator
- Various colors and lens types available

Package outlines



Recommend Pad Layout



Part No.	Emitted color	Dice	Lens color
HQ-0805RGC	Red	AlGaInP	Water transparent
	Green	AlGaInP	

Notes:

- All dimensions are in millimeters (inches);
- Tolerances are $\pm 0.1\text{mm}$ (0.004inch) unless otherwise noted.

Absolute maximum ratings (TA=25°C)

Parameter	Symbol	Value		Unit
		R	G	
Power dissipation	Pd	72	72	mW
Forward current	If	30		mA
Reverse voltage	Vr	5		V
Operating temperature	Top	-40 ~+80		°C
Storage temperature	Tstg	-40 ~+85		°C
Peak pulsing current (1/8 duty f=1kHz)	Ifp	125		mA

Electro-optical characteristics (TA=25°C)

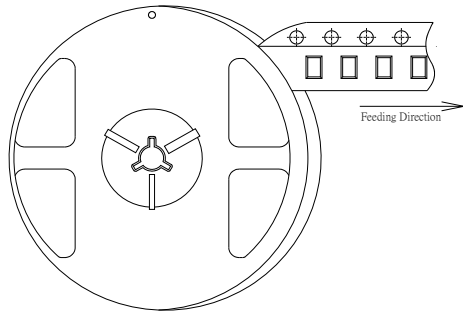
Parameter	Test Condition	Symbol	Value			Unit
			Min	Typ	Max	
Wavelength at peak emission	If=20mA	λ_p R	--	644	--	nm
		G	--	573	--	
Spectral half bandwidth	If=20mA	$\Delta \lambda$ R	--	18	--	nm
		G	--	20	--	
Dominant wavelength	If=20mA	λ_d R	626	--	636	nm
		G	566	--	576	
Forward voltage	If=20mA	Vf R	1.8	--	2.4	V
		G	1.8	--	2.4	
Luminous intensity	If=20mA	Iv R	120	--	250	mcd
		G	30	--	55	
Viewing angle at 50% Iv	If=10mA	$2\theta_{1/2}$	--	120	--	Deg
Reverse current	Vr=5V	Ir	--	--	10	μ A

Test items and results of reliability

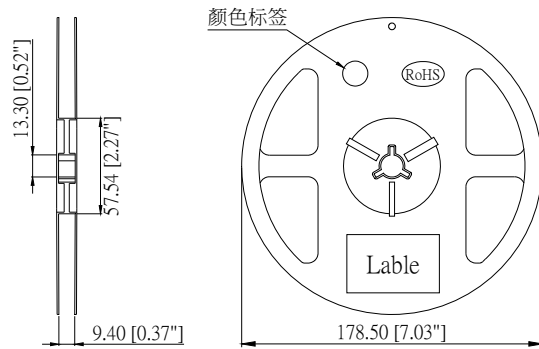
Type	Test Item	Test Conditions	Note	Number of Damaged
Environmental Sequence	Temperature Cycle	-20°C 30min ↑ ↓ 80°C 30min	100 cycle	0/22
	Thermal Shock	-20°C 15min ↑ ↓ 80°C 15min	100 cycle	0/22
	High Humidity Heat Cycle	30°C ↔ 65°C 90%RH 24hrs/1cycle	10 cycle	0/22
	High Temperature Storage	Ta=80°C	1000 hrs	0/22
	Humidity Heat Storage	Ta=60°C RH=90%	1000 hrs	0/22
	Low Temperature Storage	Ta=-30°C	1000 hrs	0/22
Operation Sequence	Life Test	Ta=25°C IF=20mA	1000 hrs	0/22
	High Humidity Heat Life Test	60°C RH=90% IF=10mA	500 hrs	0/22
	Low Temperature Life Test	Ta=-20°C IF=20mA	1000 hrs	0/22

2012 Series SMD Chip LED Lamps Packaging Specifications

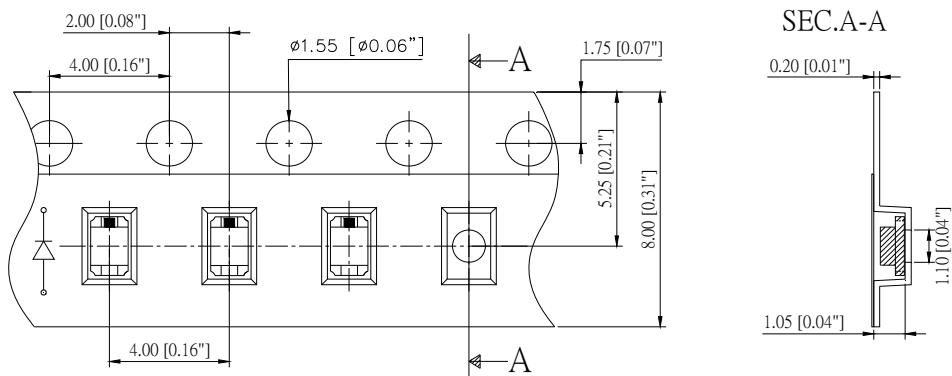
● Feeding Direction



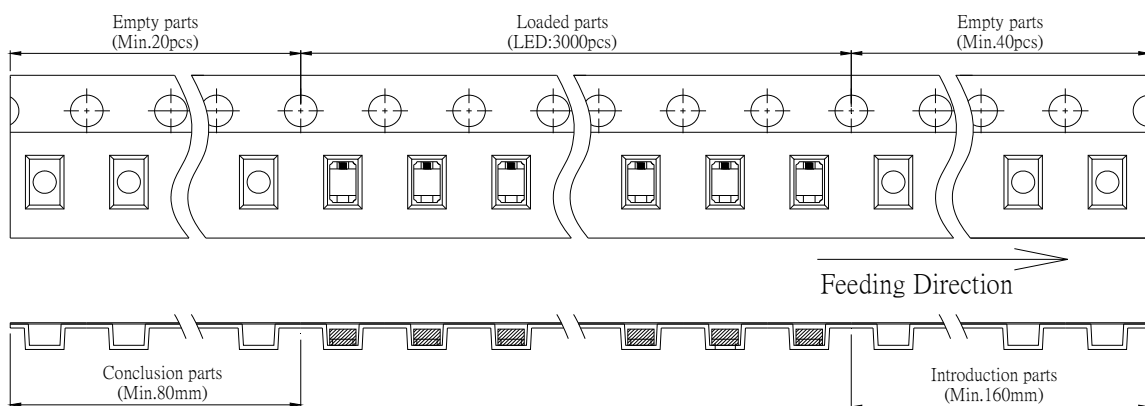
● Dimensions of Reel (Unit: mm)



● Dimensions of Tape (Unit: mm)



● Arrangement of Tape



Notes:

1. Empty component pockets are sealed with top cover tape;
2. The maximum number of missing lamps is two;
3. The cathode is oriented towards the tape sprocket hole in accordance with ANSI/EIA RS-481 specifications.
4. 3,000 pcs/Reel.