

Product Data Sheet

Product name : CZ-0603YGD/6 Emerald Green SMD LED

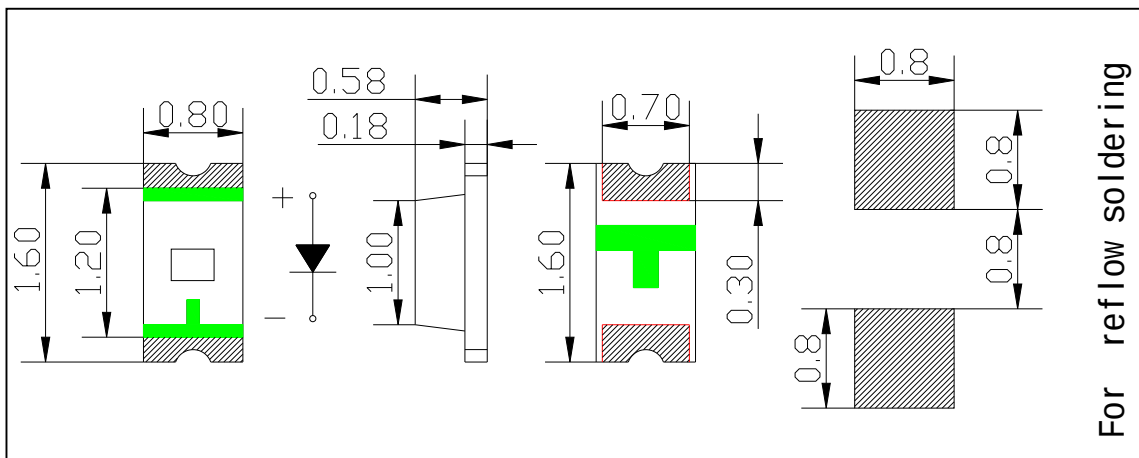
Version number : A.1

Date : 2017.04.18

1. Product Description

- Size: (L/W/H) : 1.6×0.8×0.58 mm
- Color: High-bright emerald green
- Lens: transparent flat colloid
- EIA standard packaging
- Environmentally friendly products, compliant with ROHS requirements
- Suitable for automatic placement machines
- Suitable for heat reflow and wave soldering processes

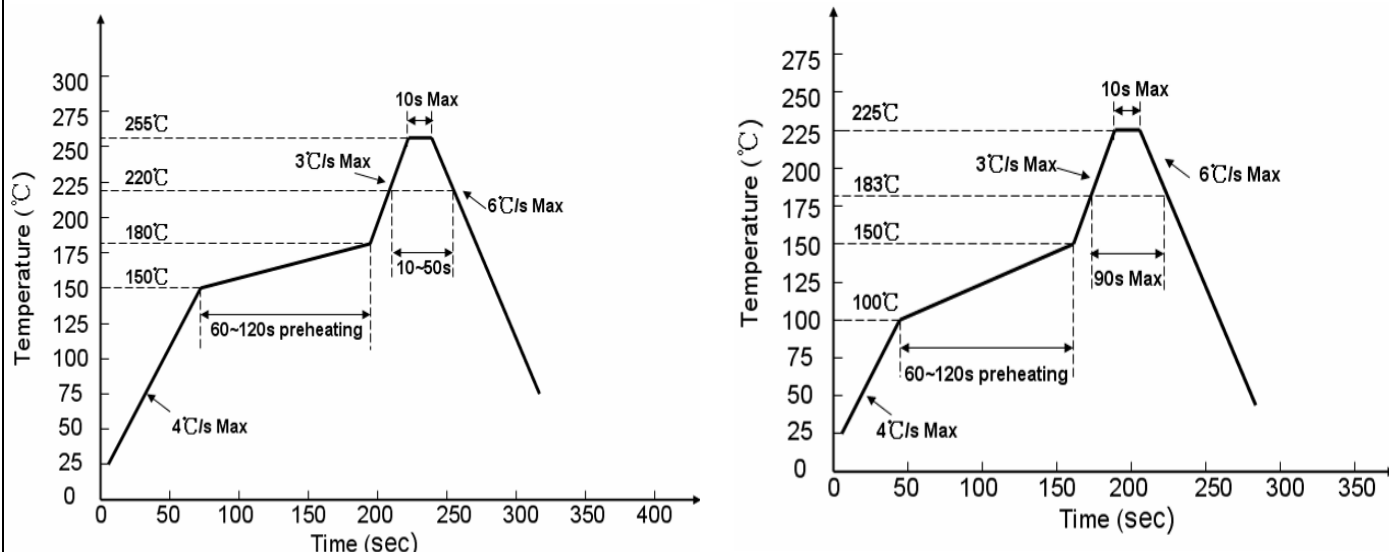
2. Dimensions and recommended pad size



Note: 1. Unit: millimeter (mm).

2. Tolerance: ± 0.1 mm unless otherwise specified.

3. Recommended soldering temperature curve Lead-free process



4. Absolute Maximum Ratings (Ta=25°C)

Parameters	symbol	maximum rating	unit
Power consumption	Pd	70	mW
Maximum pulse current (1/10 Duty cycle, 0.1ms pulse width)	IFP	70	mA
Forward DC operating current	IF	35	mA
Reverse voltage	VR	8	V
Working environment temperature	Topr	-30°C ~ +85°C	
Storage environment temperature	Tstg	-40°C ~ +90°C	
Soldering conditions	Tsol	Reflow soldering: 260°C , 10s Manual soldering : 300°C , 3s	

5. Photoelectric parameters (Ta=25°C)

Parameter	symbol	Min	Typical	Max	unit	Test conditions
light intensity	IV	173	—	207	mcd	IF = 20mA
Half-intensity viewing angle	2θ1/2		120		deg	IF = 20mA (Fig.6)
peak wavelength	λP		530		nm	IF = 20mA (Fig.1)
dominant wavelength	λd	522	—	525	nm	IF = 20mA
Half wave width	Δλ		15		nm	IF = 20mA
Forward voltage	VF	2.8	2.85	2.9	V	IF = 20mA
Leakage current	IR			10	μA	VR = 8V

6. Photoelectric parameter representative value characteristic curve

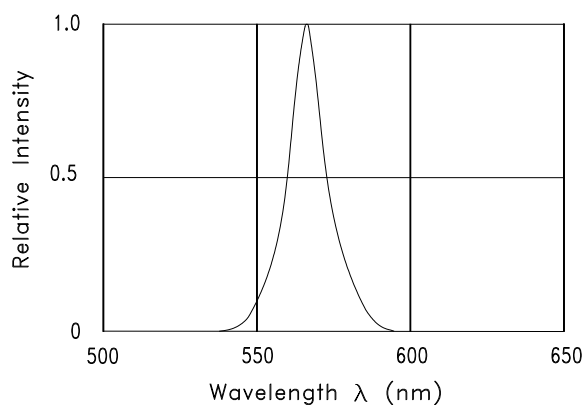


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

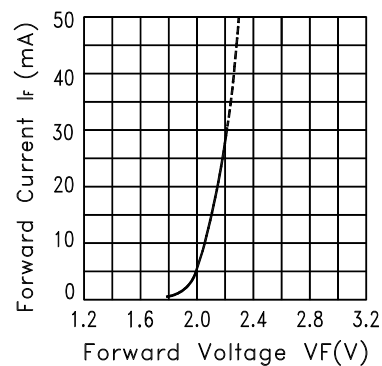


Fig.2 FORWARD CURRENT VS. FORWARD VOLTAGE

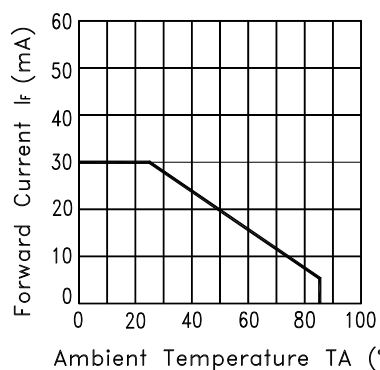


Fig.3 FORWARD CURRENT DERATING CURVE

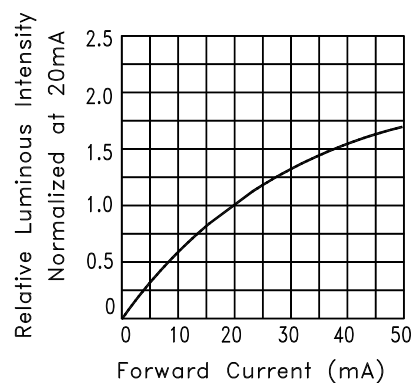


Fig.4 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

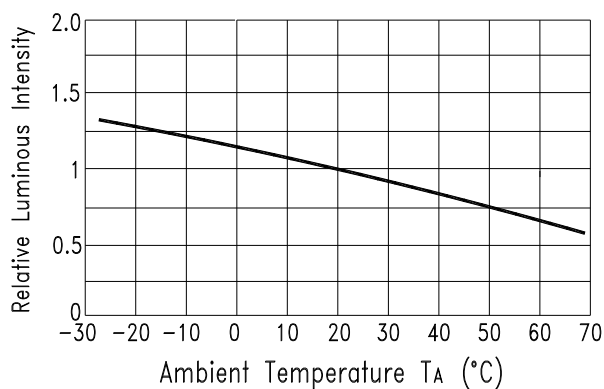


Fig.5 Luminous Intensity vs. Ambient Temperature

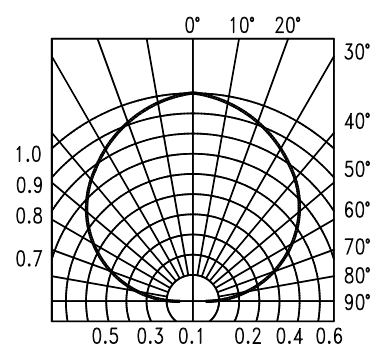


Fig.6 SPATIAL DISTRIBUTION

Note: Unless otherwise specified, the test environment temperature is $25 \pm 3^\circ\text{C}$