



**THE DATASHEET OF  
ESS-JC210TGKT**





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# DATA SHEET

ESL NO.. :ESS-JC210TGKT

CUSNO.. :

REV : A / 0

Producer: \_\_\_\_\_

*Eden*

Auditor: \_\_\_\_\_

Approver: \_\_\_\_\_

*Jack*

CUSTOMER'S APPROVAL : \_\_\_\_\_

DCC : \_\_\_\_\_



1.0×0.5×0.42mm SMD LED

ESS-JC210TGKT

REV:A0

※ **Features:**

- 1.Package: 1.0×0.5×0.42mm
- 2.Emitted Color: Green
- 3.Mono-color type
- 4.Soldering methods: All SMT assembly methods
- 5.Compliant ROHS standard.

※ **Applications:**

- 1.Interior automotive lighting(dashboard backlight etc···)
- 2.Optical indicators
- 3.Communication Products
- 4.Backlighting
- 5.Flash
- 6.Toys

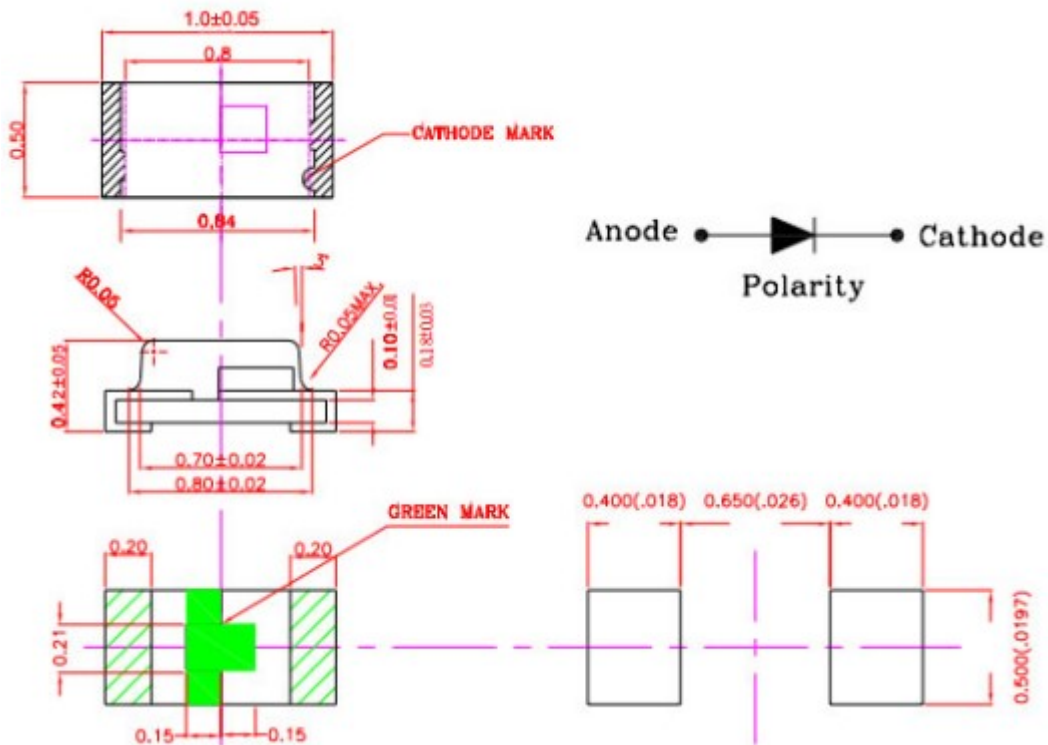


# 1.0×0.5×0.42mm SMD LED

## ESS-JC210TGKT

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### ※ Package Outline Dimension:



### NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.10$ mm unless otherwise specified.
3. Specifications are subject to change without notice.



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

Parameter	Symbol	Value	Unit
Power Dissipation	Pd	16	mW
Forward current	If	20	mA
Reverse voltage	Vr	5	V
Operating temperature range	Top	-20~+80	°C
Storage temperature range	Tstg	-40~+100	°C
Peak pulsing current	Ifp	100	mA

Pulse width ≤ 0.1msec duty ≤ 1/10

### ※ Electrical-optical characteristics(Ta=25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward voltage	V <sub>F</sub>	If=20mA	2.4	--	3.0	V
Viewing angle	2θ <sub>1/2</sub>	If=20mA		120		Deg
Reverse current	I <sub>r</sub>	V <sub>r</sub> =5V	--	--	5	A
Luminous intensity	I <sub>v</sub>	If=20mA	150	--	300	mcd
wave length	λ <sub>d</sub>	If=20mA	520		530	nm

#### Note:

- 1.Tolerance of measurement of luminous intensity : ±8%
- 2.Tolerance of measurement of chromatic coordinates : ±0.01
- 3.Tolerance of measurement of forward voltage : ±0.1V

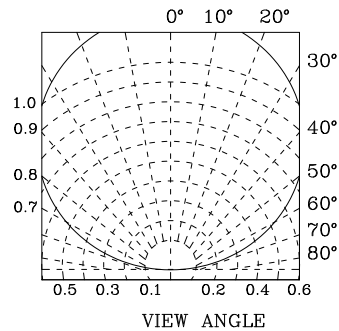
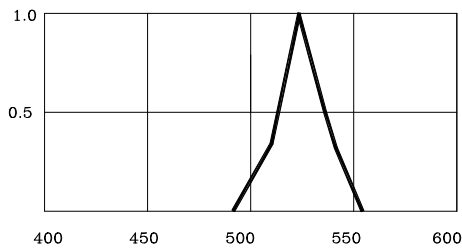
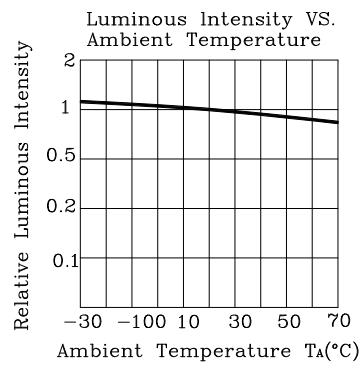
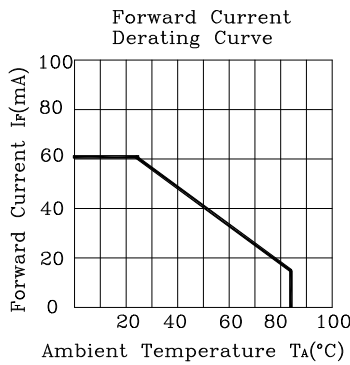
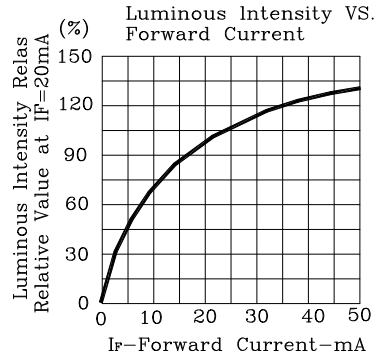
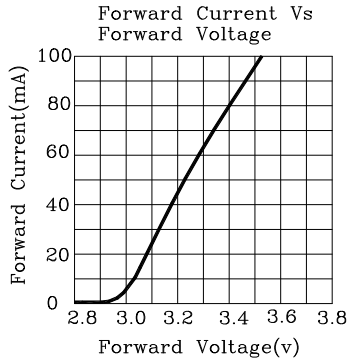


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### ※ Typical Electro-Optical Characteristics Curves



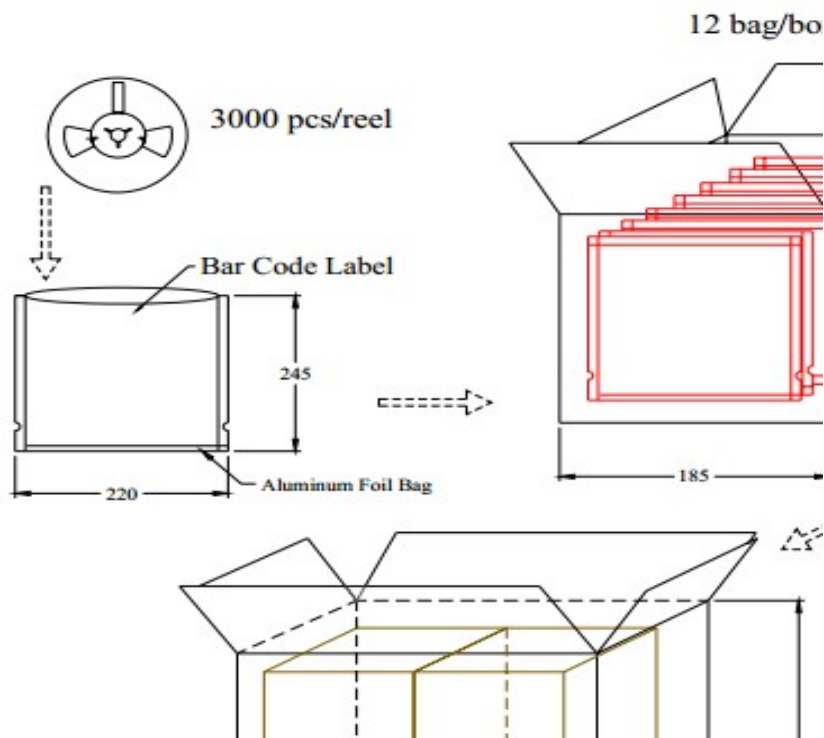
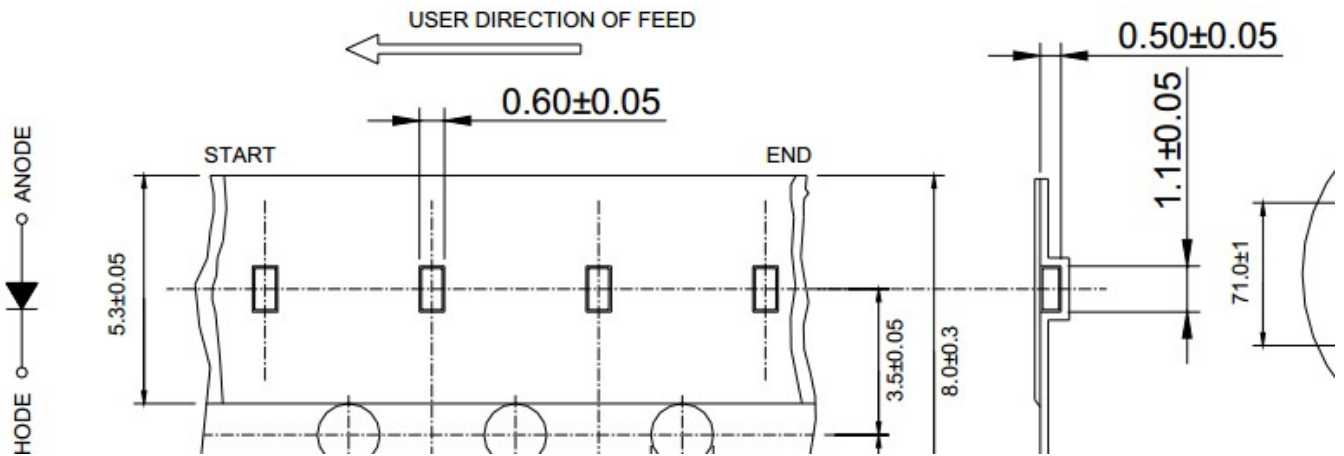


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※ Package Tape Specifications:





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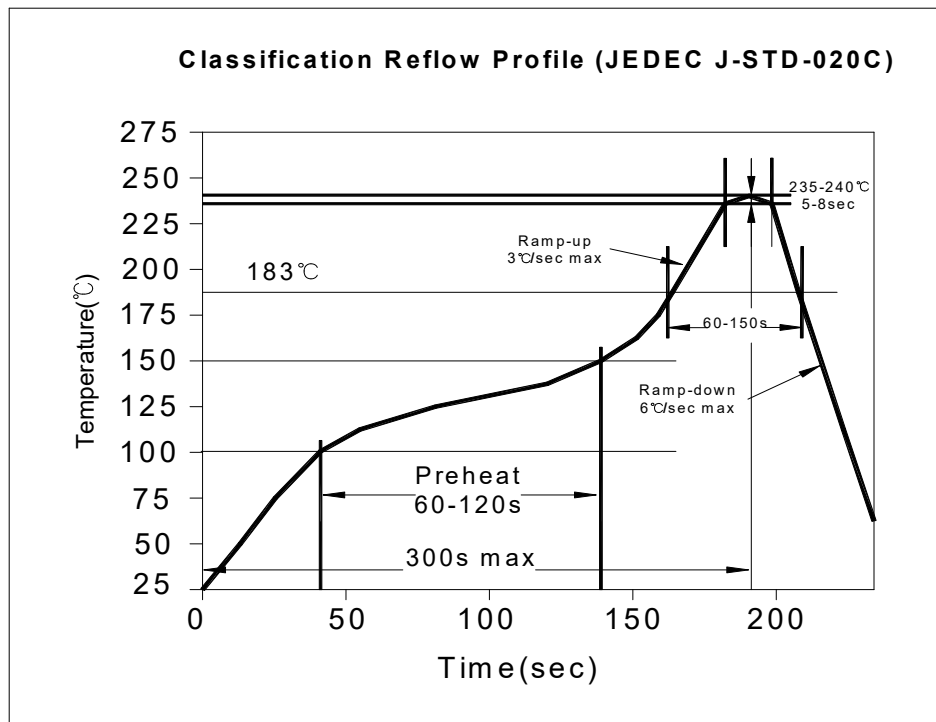
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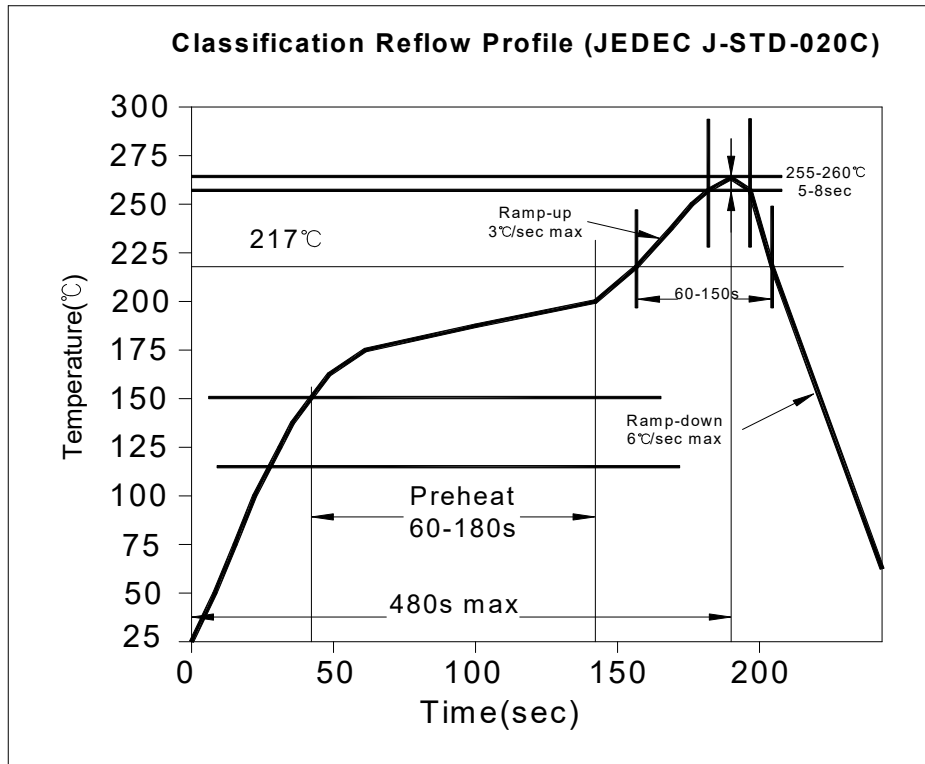
### ※ Precautions for use :

1. Customer must apply the current limiting resistor in the circuit so as to drive the LEDs within the rated current. Otherwise slight voltage shift maybe will cause big current change and burn out will happen.
  2. Also, caution should be taken not to overload the LEDs with instantaneous high voltage at the turning ON and OFF of the circuit.
  3. Storage:
    - 3.1 Don' t open the moisture proof bag before ready to use the LEDs.
    - 3.2 The LEDs should be kept at 30°C or less and 60%RH or less before opening the package. The max. storage period before opening the package is 1 year.
    - 3.3 After opening the package, the LEDs should be kept at 30°C/35%RH or less, and it should be used within 7 days.
    - 3.4 If the LEDs be kept over the conditions of 3.4, baking is required before mounting.
- Baking condition as below: 60±5°C for 12 hrs.
4. Soldering condition:

#### 4.1 Lead Solder:



4.2 Lead Free Solder:



Note:

- 1.Reflow soldering should not be done more than two times.
2. Don' t put stress on the LEDs when soldering.
- 3.Don' t warp the circuit board before it have been returned to normal ambient conditions after soldering

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