



EVERLIGHT ELECTRONICS CO.,LTD.

DATA SHEET

PART NO. : 17-215/G6C-FN2P2B/3T

DATE :

DEPARTMENT : R.D.3

REVISION : 1.3

| | | | |
|-----------------------------|------------------|-----------|------------------|
| RECEIVED | | | |
| MASS PRODUCTION | | | |
| PRELIMINARY | | | |
| CUSTOMER DESIGN | | | |
| DEVICE NUMBER : DSE-175-G01 | | | |
| PAGE : 13 | | | |
| CUSTOMER | DESIGNER | CHECKER | APPROVER |
| | JESSICA CHANG | JEFF TSAI | CHARLES CHANG |

| | | |
|-----|-------------|--------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| REV | DESCRIPTION | RELEASE DATE |

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<http://www.everlight.com>



EVERLIGHT ELECTRONICS CO., LTD.

Website : <http://www.everlight.com>

Package Type:

SMD For PCB Type

| | |
|--------|---------|
| 11-21 | 19-215 |
| 12-21 | 19-215A |
| 12-215 | 19-217A |
| 15-21 | 22-21 |
| 15-215 | 23-21 |
| 16-213 | 23-21B |
| 17-21 | 24-21 |
| 17-215 | 25-21 |
| 19-21 | 27-21 |
| 19-21A | 42-21 |

Dominant Wavelength Groups:

According to the difference wavelength to define
None:No definition

- A : Standard wavelength definition.
- B : Range of wavelength definition is more narrowly than group A.
- C : Range of wavelength definition is more narrowly than group A, but the value is different with group B.
- F : The wavelength definition in special specification.

The dominant wavelength data did not including $\pm 1\text{nm}$ testing tolerance.

Test Forward Current:

- None: 20 mA
- Y : 5 mA
- Z : 10 mA

Taping Quantity:

- 1: 1000 pcs (Taping)
- 2: 2000 pcs (Taping)
- 3: 3000 pcs (Taping)
- 5: 5000 pcs (Taping)
- C : 1500 pcs (Taping)
- D : 10000 pcs (Taping)

19 - 21

/ B H C

- A

N1 P2

M /

Emission Color:

- R:Red
(λ d:640nm,630nm,625nm)
- S:Sunset Orange
(λ d:615nm,605nm)
- Y:Yellow
(λ d:595nm,590nm)
- G:Green
(λ d:570nm,565nm,560nm,525nm,505nm)
- B:Blue
(λ d:470nm)
- W:White
x=0.32
y=0.31

The ordinal number that base on difference electro-optical characteristics within chip.

1,2 7,8,9,
A,B.....X,Y,Z

Resin Color:

- C:Water Clear
- W:White Diffused
- D:Diffused

Luminous Intensity Groups:

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| C0: 0.28 ... 0.45 | | R \Rightarrow | R1: 112 ... 140 |
| D0: 0.45 ... 0.70 | | R2: 140 ... 180 | |
| E0: 0.70 ... 1.1 | | S \Rightarrow | S1: 180 ... 225 |
| F0: 1.1 ... 1.8 | | S2: 225 ... 285 | |
| G0: 1.8 ... 2.8 | | T \Rightarrow | T1: 285 ... 360 |
| H0: 2.8 ... 4.5 | | T2: 360 ... 450 | |
| J0: 4.5 ... 7.2 | | U \Rightarrow | U1: 450 ... 565 |
| K0: 7.2 ... 11.5 | | U2: 565 ... 715 | |
| L \Rightarrow | L1: 11.5 ... 14.5 | V \Rightarrow | V1: 715 ... 900 |
| L2: 14.5 ... 18.0 | | V2: 900 ... 1120 | |
| M \Rightarrow | M1: 18.0 ... 22.5 | W \Rightarrow | W1:1120 ... 1420 |
| M2: 22.5 ... 28.5 | | W2:1420 ... 1800 | |
| N \Rightarrow | N1: 28.5 ... 36.0 | X \Rightarrow | X1: 1800 ... 2250 |
| N2: 36.0 ... 45.0 | | X2: 2250 ... 2850 | |
| P \Rightarrow | P1: 45.0 ... 57.0 | Y \Rightarrow | Y1: 2850 ... 3600 |
| P2: 57.0 ... 72.0 | | Y2: 3600 ... 4500 | |
| Q \Rightarrow | Q1: 72.0 ... 90.0 | | |
| Q2: 90.0 ... 112 | | | |

Unit:md

The luminous intensity data did not including $\pm 15\%$ testing tolerance.

ANNEX



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■ Dominant Wavelength Groups:

| Chip | G2 | | | | |
|------------------|----|-------|-------|-------|------|
| Dom . Wavelength | | Range | | | |
| Of Group | | Bin | Min. | Max. | Unit |
| A | | C10 | 557.5 | 559.5 | nm |
| | | C11 | 559.5 | 561.5 | nm |
| | | C12 | 561.5 | 563.5 | nm |
| | | C13 | 563.5 | 565.5 | nm |
| | | C14 | 565.5 | 567.5 | nm |

| Chip | GV | | | | |
|------------------|----|-------|-------|-------|------|
| Dom . Wavelength | | Range | | | |
| Of Group | | Bin | Min. | Max. | Unit |
| A | | C13 | 563.5 | 565.5 | nm |
| | | C14 | 565.5 | 567.5 | nm |
| | | C15 | 567.5 | 569.5 | nm |
| | | C16 | 569.5 | 571.5 | nm |

| Chip | G3 | | | | |
|------------------|----|-------|-------|-------|------|
| Dom . Wavelength | | Range | | | |
| Of Group | | Bin | Min. | Max. | Unit |
| A | B | C11 | 559.5 | 561.5 | nm |
| | | C12 | 561.5 | 563.5 | nm |
| | | C13 | 563.5 | 565.5 | nm |
| | | C14 | 565.5 | 567.5 | nm |
| | | C15 | 567.5 | 569.5 | nm |

| Chip | GP | | | | |
|------------------|----|-------|-------|-------|------|
| Dom . Wavelength | | Range | | | |
| Of Group | | Bin | Min. | Max. | Unit |
| A | | C10 | 557.5 | 559.5 | nm |
| | | C11 | 559.5 | 561.5 | nm |
| | | C12 | 561.5 | 563.5 | nm |
| | | C13 | 563.5 | 565.5 | nm |
| | | C14 | 565.5 | 567.5 | nm |

| Chip | G5 | | | | |
|------------------|----|-------|-------|-------|------|
| Dom . Wavelength | | Range | | | |
| Of Groups | | Bin | Min. | Max. | Unit |
| A | B | C15 | 567.5 | 569.5 | nm |
| | | C16 | 569.5 | 571.5 | nm |
| | | C17 | 571.5 | 573.5 | nm |
| | | C18 | 573.5 | 575.5 | nm |

| Chip | G6,G7 | | | | |
|------------------|-------|-------|-------|-------|------|
| Dom . Wavelength | | Range | | | |
| Of Group | | Bin | Min. | Max. | Unit |
| | | C15 | 567.5 | 569.5 | nm |
| A | B | C16 | 569.5 | 571.5 | nm |
| | | C17 | 571.5 | 573.5 | nm |
| | | C18 | 573.5 | 575.5 | nm |
| | | C19 | 575.5 | 577.5 | nm |
| F | | CC2 | 570.0 | 571.5 | nm |
| | | CC3 | 571.5 | 573.0 | nm |
| | | CC4 | 573.0 | 574.5 | nm |

ANNEX



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■ Dominant Wavelength Groups:

| Chip | GH | | | Range | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-----|-------|-------|----|-----|-------|-------|----|-----|-------|-------|----|-----|-------|-------|----|-----|-------|-------|----|-----|
| Dom . Wavelength | | | | Range | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Of Group | | | | Bin | Min. | Max. | Unit | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | C | B10 | 517.5 | 519.5 | nm | B11 | 519.5 | 521.5 | nm | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | B12 | 521.5 | 523.5 | nm | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | B13 | 523.5 | 525.5 | nm | | | | | | | | | | | | | | | | | |
| | B14 | 525.5 | 527.5 | nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | B15 | 527.5 | 529.5 | nm | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | B16 | 529.5 | 531.5 | nm | | | | | | | | | | | | | | | | | | | | | | |
| | B17 | 531.5 | 533.5 | nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | B18 | 533.5 | 535.5 | nm | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | G | F | BB1 | 519.5 | 521.0 | nm | | | | | | | | | | | | | | | | | | | | |
| BB2 | 521.0 | 522.5 | nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | BB3 | 522.5 | 524.0 | nm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | BB4 | | | | | | | 524.0 | 525.5 | nm | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | BB5 | 525.5 | 527.0 | nm | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | BB6 | 527.0 | 528.5 | nm | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | BB7 | 528.5 | 530.0 | nm | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | BB8 | 530.0 | 531.5 | nm | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | BB9 |
| | | | | | | | | | Z | X | Y | W | 515 | 520 | | | | | | | | | | | | | | | | | | | | |
| X | 520 | 525 | nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Y | 525 | 530 | nm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | Z | | | | | | | 530 | 535 | nm | | | | | | | | | | | | | | | | | |

| Chip | GL | | | Range | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----|-------|-------|-------|------|-------|-------|----|-----|-------|-------|----|----|-------|-------|----|----|-------|-------|----|----|-------|-------|----|----|-------|-------|----|----|-------|-------|----|
| Dom . Wavelength | | | | Range | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Of Group | | | | Bin | Min. | Max. | Unit | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | B1 | 499.5 | 501.5 | nm | B2 | 501.5 | 503.5 | nm | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | B3 | 503.5 | 505.5 | nm | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | B4 | 505.5 | 507.5 | nm | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | B5 | 507.5 | 509.5 | nm | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | B6 | 509.5 | 511.5 | nm | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | B7 | 511.5 | 513.5 | nm | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | B8 | 513.5 | 515.5 | nm |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | 500 | 505 | nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Y | 505 | 510 | nm | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | Z | 510 | 515 | nm | | | | | | | | | | | | | | | | | | | | | |

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■ Forward Voltage Groups:

| Forward Voltage Groups | | | | Range | | | | |
|------------------------|--|--|--|-------|------|------|------|---|
| | | | | Bin | Min. | Max. | Unit | |
| | | | | A | 00 | 1.55 | 1.75 | v |
| | | | | | 0 | 1.75 | 1.95 | v |
| C B | | | | A | 1 | 1.95 | 2.15 | v |
| | | | | | 2 | 2.15 | 2.35 | v |
| | | | | D | 3 | 2.35 | 2.55 | v |
| | | | | | 4 | 2.55 | 2.75 | v |
| M E | | | | D | 5 | 2.75 | 3.05 | v |
| | | | | | 6 | 3.05 | 3.35 | v |
| | | | | J | 7 | 3.35 | 3.65 | v |
| | | | | | 8 | 3.65 | 3.95 | v |
| N F K R | | | | J | 9 | 2.50 | 2.70 | v |
| | | | | | 10 | 2.70 | 2.90 | v |
| | | | | H | 11 | 2.90 | 3.10 | v |
| | | | | | 12 | 3.10 | 3.30 | v |
| | | | | H | 13 | 3.30 | 3.50 | v |
| | | | | | 14 | 3.50 | 3.70 | v |
| P | | | | H | 15 | 2.70 | 2.85 | v |
| | | | | | 16 | 2.85 | 3.00 | v |
| | | | | H | 17 | 3.00 | 3.15 | v |
| | | | | | 18 | 3.15 | 3.30 | v |



Technical Data Sheet

0.8mm Height Flat Top LED

17-215/G__C Series *1

Features

- Package in 8mm tape on 7" diameter reel.
- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase reflow solder process.
- Mono-color type.



Descriptions

- The 17-215 SMD Taping is much smaller than lead frame type components, thus enable smaller board size, higher packing density, reduced storage space and finally smaller equipment to be obtained.
- Besides, lightweight makes them ideal for miniature applications. etc.

Applications

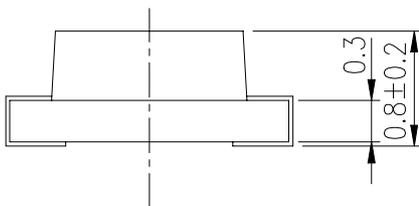
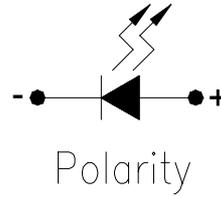
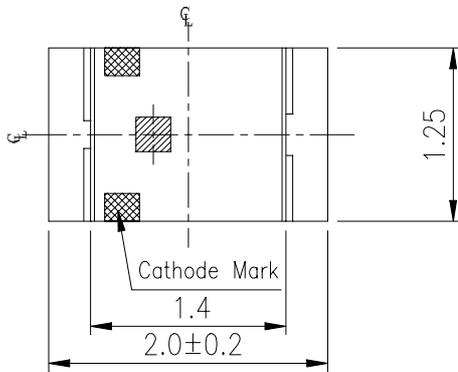
- Automotive: backlighting in dashboard and switch.
- Telecommunication: indicator and backlighting in telephone and fax.
- Flat backlight for LCD, switch and symbol.
- General use.

Device Selection Guide

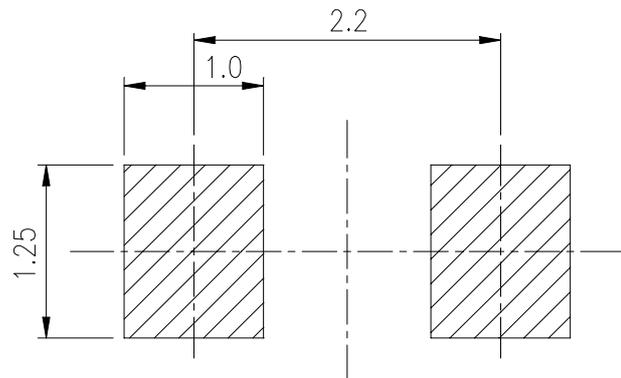
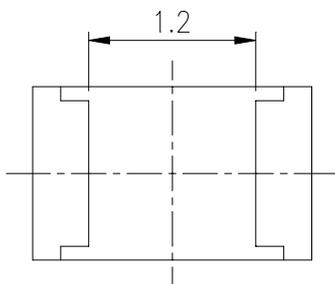
| Part No. | Chip | | Lens Color |
|------------|----------|------------------------|-------------|
| | Material | Emitted Color | |
| 17-215/G2C | GaP | Pure Green | Water Clear |
| 17-215/G3C | | Pale Green | |
| 17-215/G5C | | Yellow Green | |
| 17-215/G6C | AlGaInP | Brilliant Yellow Green | |
| 17-215/GLC | InGaN | Bluish Green | |
| 17-215/GHC | InGaN | Brilliant Green | |
| 17-215/GPC | AlGaInP | Pale Green | |

*1. The series is included 17-215/G2C,17-215/G3C,17-215/G5C, 17-215/G6C,17-215/GLC,17-215/GHC,and 17-215/GPC.

Package Outline Dimensions



For reflow soldering (propose)



Note: The tolerances unless mentioned is $\pm 0.1\text{mm}$, Angle $\pm 0.5^\circ$,Unit = mm

Absolute Maximum Ratings (Ta=25°C)

| Series | Parameter | Symbol | Rating | Unit |
|----------------------------|-------------------------|------------------|---------------------|------|
| 17-215/G_C Series | Reverse Voltage | V _R | 5 | V |
| 17-215/G_C Series | Forward Current | I _F | 30 | mA |
| 17-215/ G6C/GLC/GHC/GPC | | | 25 | |
| 17-215/G_C Series | Operating Temperature | T _{opr} | -40 ~ +85 | °C |
| 17-215/G_C Series | Storage Temperature | T _{stg} | -40 ~ +90 | °C |
| 17-215/G_C Series | Soldering Temperature | T _{sol} | 260 (for 5 seconds) | °C |
| 17-215/G_C Series | Electrostatic Discharge | ESD | 2000 | V |
| 17-215/GLC/GHC | | | 150 | |
| 17-215/G_C Series | Power Dissipation | P _d | 130 | mW |
| 17-215/G2C/G3C/G5C | | | 100 | |
| 17-215/G6C/GPC | | | 60 | |
| 17-215/G_C Series | Peak Forward Current | I _F | 60 | mA |
| 17-215/GLC/GHC | (Duty 1/10 @1KHz) | | 100 | |

Electro-Optical Characteristics (Ta=25°C)

| Part No. | Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|------------|-----------------|-------------|------|---------------------|------|------|-----------|
| 17-215/G2C | Peak Wavelength | λ_p | ---- | 555 | ---- | nm | IF=20mA |
| 17-215/G3C | | | | 560 | | | |
| 17-215/G5C | | | | 570 | | | |
| 17-215/G6C | | | | 575 | | | |
| 17-215/GLC | | | | 502 | | | |
| 17-215/GHC | | | | 518 | | | |
| 17-215/GPC | | | | 561 | | | |
| 17-215/G2C | | | | Dominant Wavelength | | | |
| 17-215/G3C | 565 | | | | | | |
| 17-215/G5C | 571 | | | | | | |
| 17-215/G6C | 573 | | | | | | |
| 17-215/GLC | 505 | | | | | | |
| 17-215/GHC | 525 | | | | | | |
| 17-215/GPC | 562 | | | | | | |

Electro-Optical Characteristics (Ta=25°C)

| Part No. | Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|-------------------|------------------------------|------------------|------|------|------|---------|-----------|
| 17-215/G2C | Spectrum Radiation Bandwidth | $\Delta \lambda$ | ---- | 30 | ---- | nm | IF=20mA |
| 17-215/G3C | | | | 30 | | | |
| 17-215/G5C | | | | 30 | | | |
| 17-215/G6C | | | | 20 | | | |
| 17-215/GLC | | | | 30 | | | |
| 17-215/GHC | | | | 36 | | | |
| 17-215/GPC | | | | 20 | | | |
| 17-215/G_C Series | Viewing Angle | $2\theta_{1/2}$ | ---- | 130 | ---- | deg | |
| 17-215/G_C Series | Forward Voltage | VF | ---- | 2.0 | 2.4 | V | |
| 17-215/GLC/GHC | | | | 3.5 | 4.0 | | |
| 17-215/G_C Series | Reverse Current | IR | ---- | ---- | 10 | μA | VR=5V |
| 17-215/GLC/GHC | | | | | 50 | | |

Note:

- 1. Tolerance of Forward Voltage $\pm 0.1V$**

17-215/G__C Series Explain Of Luminous Intensity:
I_F=20mA

| Part No. | Parameter | Symbol | Typ. | Bin Code | Min. | Max. | Unit |
|-----------------|--------------------|----------------|------|----------|------|------|------|
| 17-215/G2C-G0J0 | Luminous Intensity | I _v | 3.0 | G0 | 1.8 | 2.8 | mcd |
| | | | | H0 | 2.8 | 4.5 | |
| | | | | J0 | 4.5 | 7.2 | |
| 17-215/G3C-J0L1 | Luminous Intensity | I _v | 7.5 | J0 | 4.5 | 7.2 | mcd |
| | | | | K0 | 7.2 | 11.5 | |
| | | | | L1 | 11.5 | 14.5 | |
| 17-215/G5C-K0L2 | Luminous Intensity | I _v | 12 | K0 | 7.2 | 11.5 | mcd |
| | | | | L1 | 11.5 | 14.5 | |
| | | | | L2 | 14.5 | 18.0 | |

Note:

 The luminous intensity data did not including $\pm 15\%$ testing tolerance.

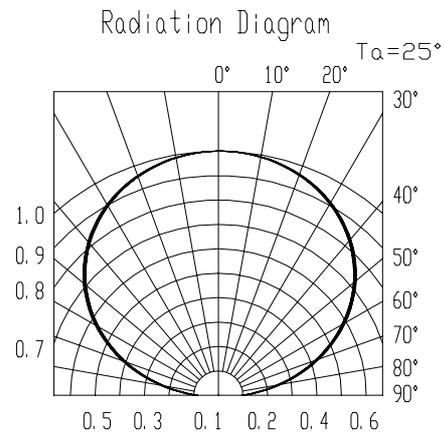
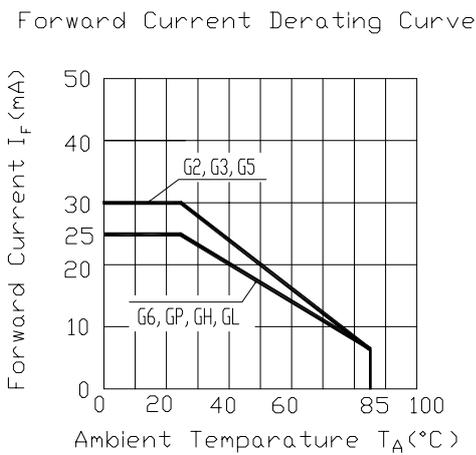
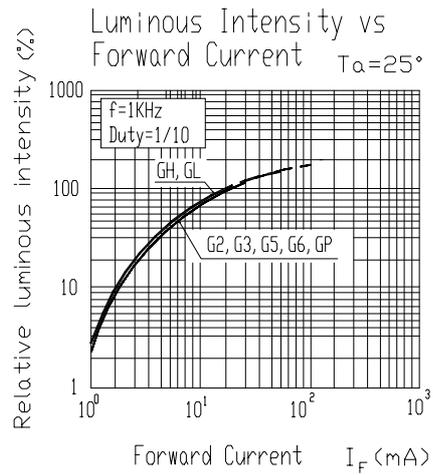
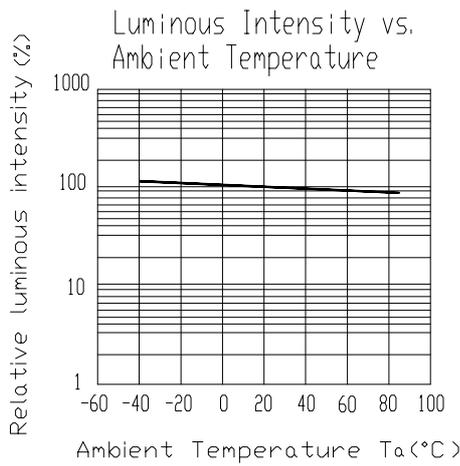
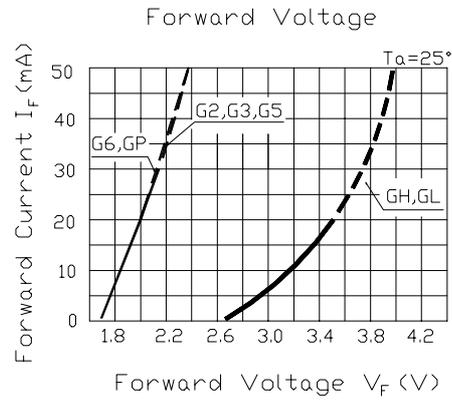
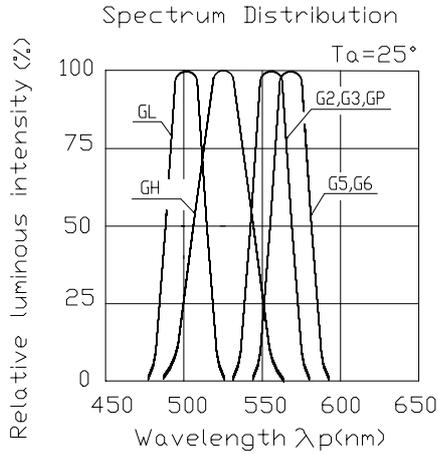
17-215/G__C Series Explain Of Luminous Intensity:
I_F=20mA

| Part No. | Parameter | Symbol | Typ. | Bin Code | Min. | Max. | Unit |
|-----------------|--------------------|----------------|------|----------|------|------|------|
| 17-215/G6C-L2M2 | Luminous Intensity | I _v | 25 | L2 | 14.5 | 18.0 | mcd |
| | | | | M1 | 18.0 | 22.5 | |
| | | | | M2 | 22.5 | 28.5 | |
| 17-215/G6C-MN | Luminous Intensity | I _v | 35 | M | 18.0 | 28.5 | mcd |
| | | | | N | 28.5 | 45.0 | |
| 17-215/G6C-N1P1 | Luminous Intensity | I _v | 45 | N1 | 28.5 | 36.0 | mcd |
| | | | | N2 | 36.0 | 45.0 | |
| | | | | P1 | 45.0 | 57.0 | |
| 17-215/G6C-N2P2 | Luminous Intensity | I _v | 55 | N2 | 36.0 | 45.0 | mcd |
| | | | | P1 | 45.0 | 57.0 | |
| | | | | P2 | 57.0 | 72.0 | |
| 17-215/GLC-Q1R2 | Luminous Intensity | I _v | 120 | Q1 | 72.0 | 90.0 | mcd |
| | | | | Q2 | 90.0 | 112 | |
| | | | | R1 | 112 | 140 | |
| | | | | R2 | 140 | 180 | |
| 17-215/GHC-R1S2 | Luminous Intensity | I _v | 170 | R1 | 112 | 140 | mcd |
| | | | | R2 | 140 | 180 | |
| | | | | S1 | 180 | 225 | |
| | | | | S2 | 225 | 285 | |
| 17-215/GPC-K0M1 | Luminous Intensity | I _v | 15 | K0 | 7.2 | 11.5 | mcd |
| | | | | L1 | 11.5 | 14.5 | |
| | | | | L2 | 14.5 | 18.0 | |
| | | | | M1 | 18.0 | 22.5 | |

Note:

 The luminous intensity data did not including $\pm 15\%$ testing tolerance.

Typical Electro-Optical Characteristics Curves



Label explanation

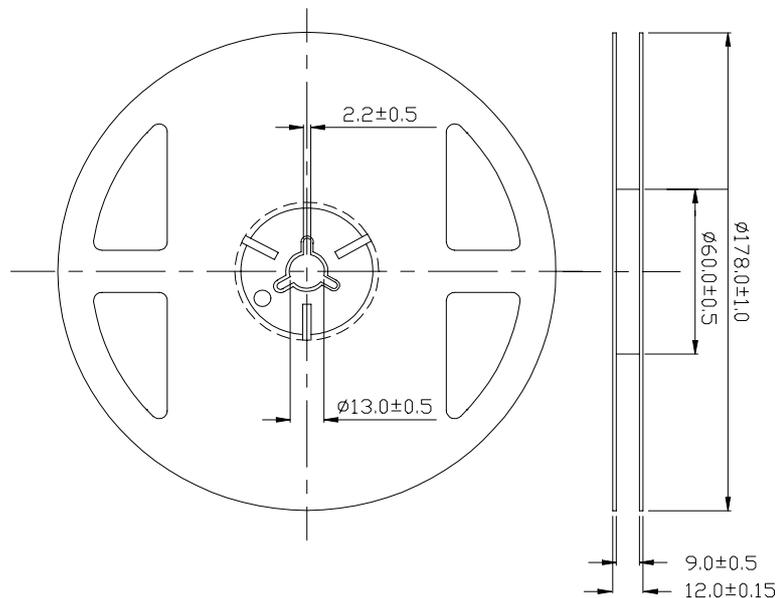
CAT: Luminous Intensity Rank

HUE: Dom. Wavelength Rank

REF: Forward Voltage Rank



Reel Dimensions



Note: The tolerances unless mentioned is $\pm 0.1\text{mm}$,Unit = mm

Reliability Test Items And Conditions

The reliability of products shall be satisfied with items listed below.

Confidence level : 90%

LTPD : 10%

| No. | Items | Test Condition | Test Hours/Cycles | Sample Size | Ac/Re |
|-----|----------------------------------|--|-------------------|-------------|-------|
| 1 | Reflow Soldering | Temp. : 240°C ± 5°C Min. 5sec. | 6 Min. | 22 PCS. | 0/1 |
| 2 | Temperature Cycle | H : +100°C 15min ∫ 5 min L : -40°C 15min | 300 Cycles | 22 PCS. | 0/1 |
| 3 | Thermal Shock | H : +100°C 5min ∫ 10 sec L : -10°C 5min | 300 Cycles | 22 PCS. | 0/1 |
| 4 | High Temperature Storage | Temp. : 100°C | 1000 Hrs. | 22 PCS. | 0/1 |
| 5 | Low Temperature Storage | Temp. : -55°C | 1000 Hrs. | 22 PCS. | 0/1 |
| 6 | DC Operating Life | IF = 20 mA | 1000 Hrs. | 22 PCS. | 0/1 |
| 7 | High Temperature / High Humidity | 85°C/85%RH | 1000 Hrs. | 22 PCS. | 0/1 |

Precautions For Use

1. Over-current-proof

Customer must apply resistors for protection , otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage

2.1 Do not open moisture proof bag before the products are ready to use.

2.2 Before opening the package, the LEDs should be kept at 30°C or less and 90%RH or less.

2.3 The LEDs should be used within a year.

2.4 After opening the package, the LEDs should be kept at 30°C or less and 70%RH or less.

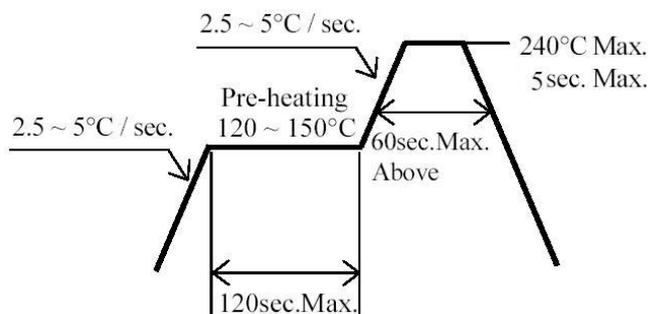
2.5 The LEDs should be used within 168 hours (7 days) after opening the package.

2.6 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions.

Baking treatment : $60 \pm 5^\circ\text{C}$ for 24 hours.

3. Soldering Condition

3.1 Lead solder temperature profile



3.2 Reflow soldering should not be done more than two times.

3.3 When soldering, do not put stress on the LEDs during heating.

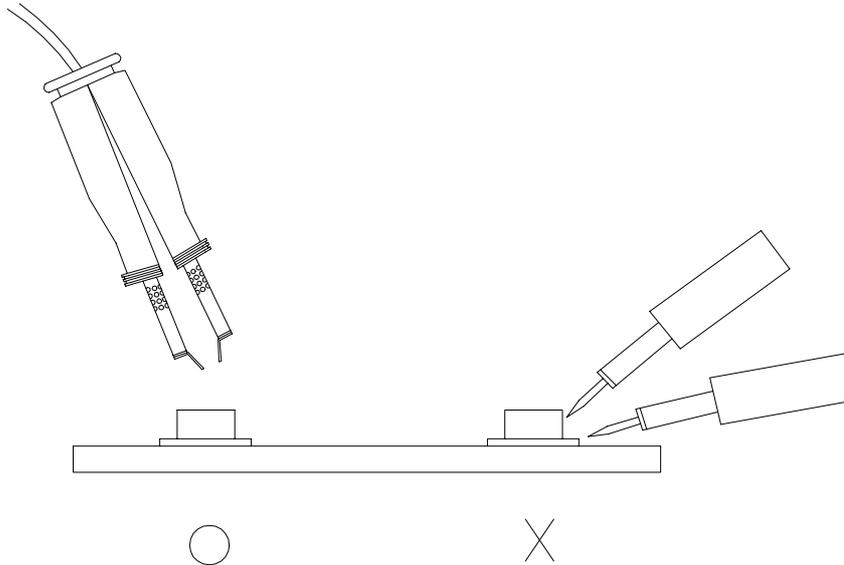
3.4 After soldering, do not warp the circuit board.

4. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 280°C for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.

5.Repairing

Repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used (as below figure). It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.



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