

Data sheet

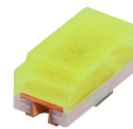
Part number : VXJW115ACA3S-3C3W2-TR



2011/65/EU, (EU)2015/863
10 Substances regulation compliant



Lead-free solder heat resistant product



| | |
|------------------|---|
| Package | High reliability with silicone resin for molding Size: 1.6 x 0.8 x 0.7 mm (L x W x H) |
| Product features | <ul style="list-style-type: none"> • Luminous intensity: 150 mcd $I_F=20mA$ • Emitting color: Pale blue (ccx = 0.173, ccy = 0.143) • Automotive quality standard: AEC-Q102 compliant • High sulfurization resistance • Equivalent to JEDEC Level 2 • Lead-free soldering compatible, RoHS2 compliant |

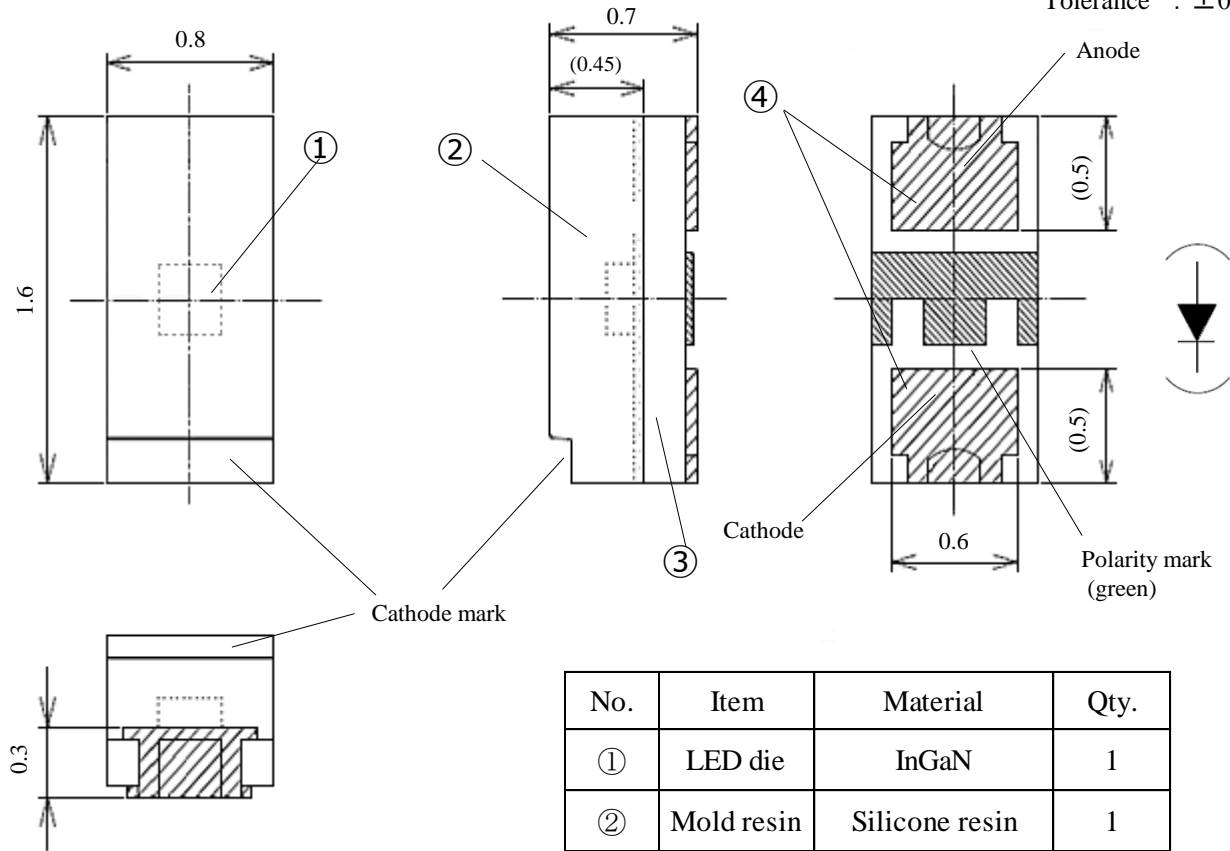
Recommended applications

- Backlight for switches for automotive equipment and industrial equipment
- Various indicator light sources etc.

Outline dimensions

VXJW115ACA3S-3C3W2-TR

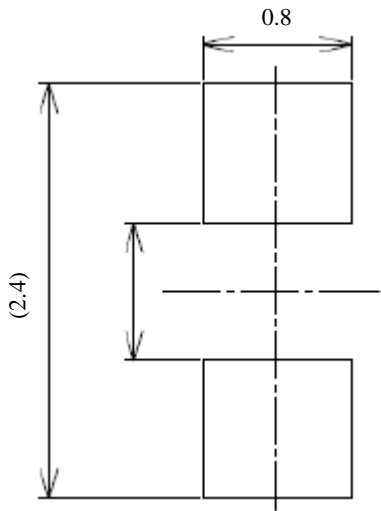
Unit : mm
Weight : 2.0mg
Tolerance : ±0.1



| No. | Item | Material | Qty. |
|-----|------------|-----------------|------|
| ① | LED die | InGaN | 1 |
| ② | Mold resin | Silicone resin | 1 |
| ③ | Substrate | Glass fabrics | 1 |
| ④ | Electrode | Cu / Au plating | 2 |

Recommended soldering pattern

Unit : mm



- ※1 The cutting burr size of the substrate and pin doesn't contain it in the size of the height of the product.
- ※2 Please note no short-circuit when the wiring pattern is arranged between the soldering attachment pad.

Specifications

VXJW115ACA3S-3C3W2-TR

【 Product overview 】

| | |
|----------------|-------|
| Die material | InGaN |
| Emitting color | White |

【 Absolute maximum ratings 】

(Ta=25°C)

| Item | Symbol | Maximum ratings | Units |
|--|------------------|-----------------|-------|
| Power dissipation | P_d | 98.8 | mW |
| Forward current | I_F | 25 | mA |
| Repetitive peak forward current "1ms, 1/10Duty" | I_{FRM} | 100 | mA |
| I_F Derate linearly from 85°C | ΔI_F | 1.0 | mA |
| I_{FRM} Derate linearly from 85°C | ΔI_{FRM} | 4.0 | mA |
| Reverse voltage | V_R | 5 | V |
| Operating temperature | T_{opr} | -40 to +100 | °C |
| Storage temperature | T_{stg} | -40 to +110 | °C |
| Electrostatic discharge threshold "HBM" | ESD | 1,000 | V |
| Soldering temperature 【Reflow soldering】 | T_{sld} | 260 | °C |
| Junction temperature | T_j | 120 | °C |

Note 1

Note 2

Note 1 ESD testing method: JEITA ED-4701/302(304A)/IEC 60810 Human body model (HBM) 1.5k Ω , 100pF

Note 2 Please refer to page 8, Soldering Conditions.

【 Thermal characteristics 】

(Ta=25°C)

| Item | Symbol | Typ. | Units |
|--|---------------|------|-------|
| Thermal Resistance 【Junction - Ambient】 | $R_{th(j-a)}$ | 350 | °C/W |
| Thermal Resistance 【Junction - Solder Point】 | $R_{th(j-s)}$ | 130 | °C/W |

Note 3

Note3 $R_{th(j-a)}$ Measurement Condition

- Substrate: FR4 ($t=1.6\text{mm}$)
- Pattern Size : 16mm^2

Specifications

VXJW115ACA3S-3C3W2-TR

【 Electro-Optical Characteristics 】

(Ta=25℃)

| Item | Symbol | Conditions | Min. | Typ. | Max. | Units | |
|--------------------------|-----------------|-----------------------|------|-------|------|-------|----------|
| Forward voltage | V _F | I _F = 20mA | 2.7 | 3.1 | 3.9 | V | Notes4 |
| Reverse current | I _R | V _R = 5V | - | - | 10 | μA | |
| Luminous intensity | I _V | I _F = 20mA | 150 | 200 | 270 | mcd | Notes5 |
| Chromaticity coordinates | x | I _F = 20mA | - | 0.173 | - | | Notes5,6 |
| | y | I _F = 20mA | - | 0.143 | - | | |
| Half intensity angle | Δθ _X | I _F = 20mA | - | 133 | - | deg. | Notes7 |
| | Δθ _Y | I _F = 20mA | - | 163 | - | deg. | |

- Notes4 Tolerance:±0.1V
- Notes5 Please refer to the attached sheets, each sorting chart.
- Notes6 Chromaticity coordinates ; x and y according to CIE1931
- Notes7 Viewing Angle at 50% I_V, Δθ_X ; Housing long side axis, Δθ_Y ; Housing short side axis

【 Sorting chart for luminous intensity, I_V 】

LEDs shall be sorted out into the following chart and each rank parts shall be packed separately when shipping.

| Rank | Luminous intensity I _V (mcd) | | Conditions |
|------|--|------|--------------------------------|
| | MIN. | MAX. | |
| C3 | 150 | 180 | I _F =20mA Ta=25℃ |
| C4 | 180 | 220 | |
| C5 | 220 | 270 | |

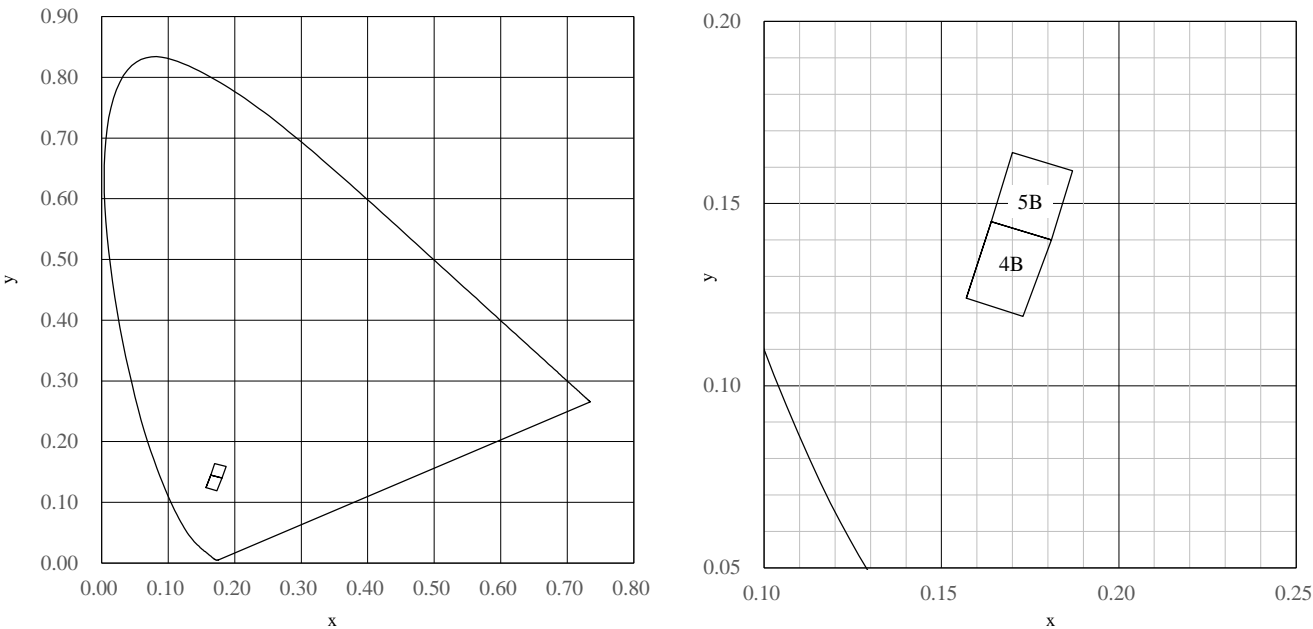
Notes Tolerance ; ±10%

Specifications

VXJW115ACA3S-3C3W2-TR

【 Sorting chart for chromaticity coordinates 】

LEDs shall be sorted out into the following chart and each rank parts shall be packed separately when shipping.



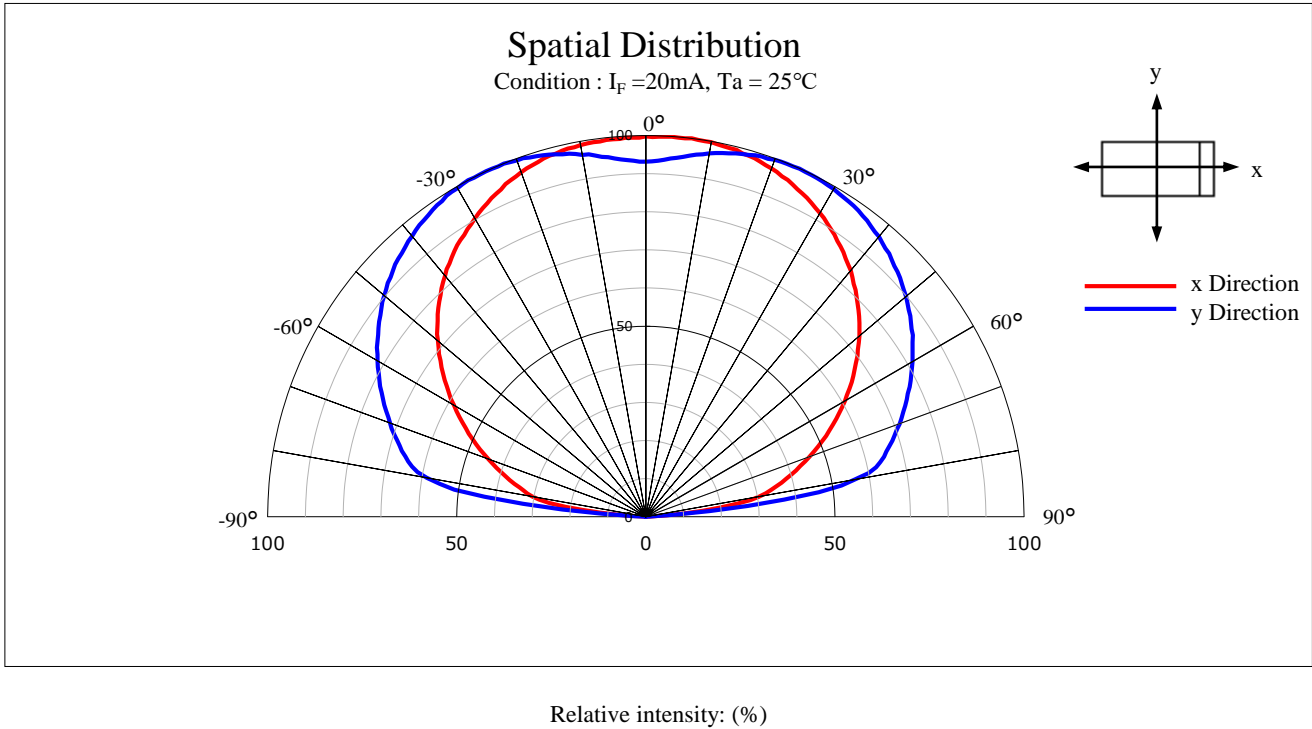
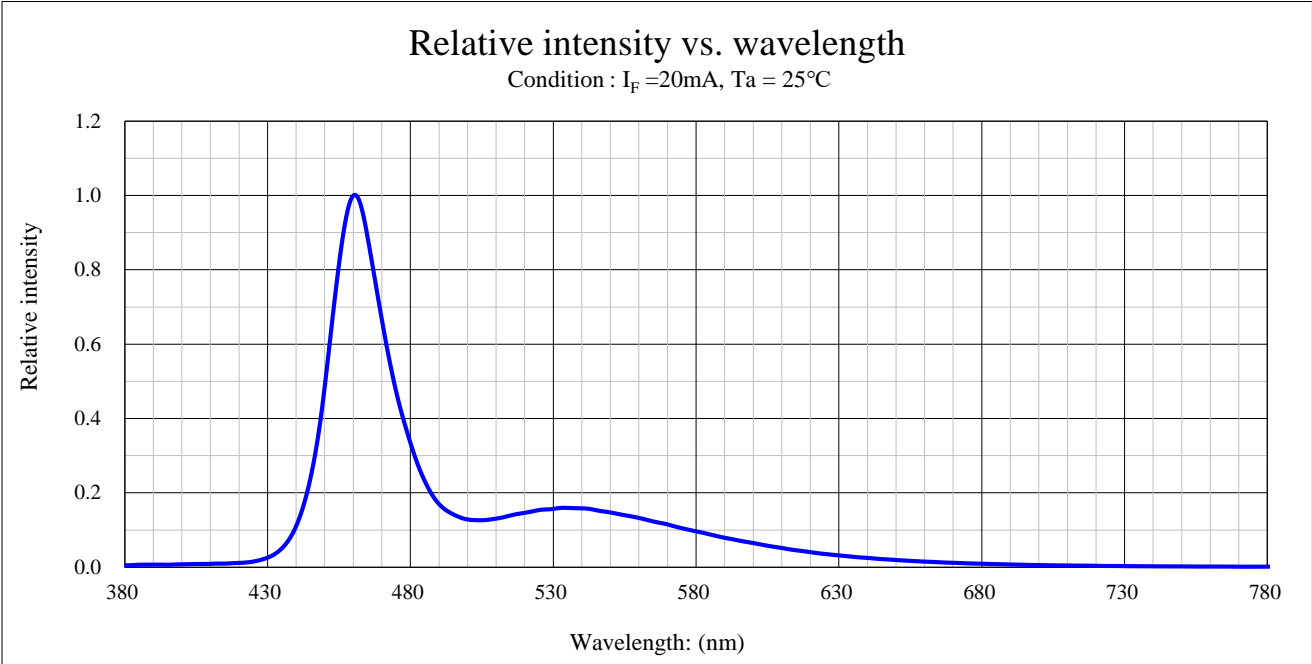
($I_F=20\text{mA}$, $T_a=25^\circ\text{C}$)

| | Left down | | Left upper | | Right upper | | Right down | |
|------|-----------|-------|------------|-------|-------------|-------|------------|-------|
| Rank | x | y | x | y | x | y | x | y |
| 4B | 0.157 | 0.124 | 0.164 | 0.145 | 0.181 | 0.140 | 0.174 | 0.119 |
| 5B | 0.164 | 0.145 | 0.170 | 0.164 | 0.187 | 0.159 | 0.181 | 0.140 |

Note Tolerance : ± 0.01

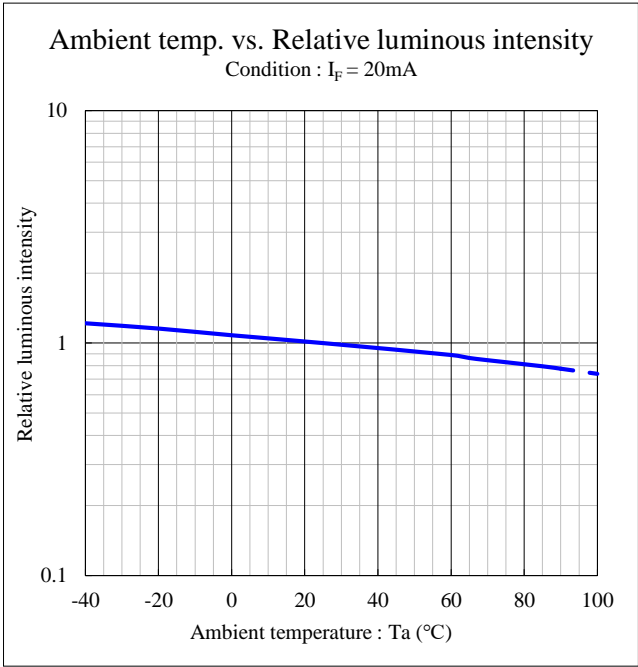
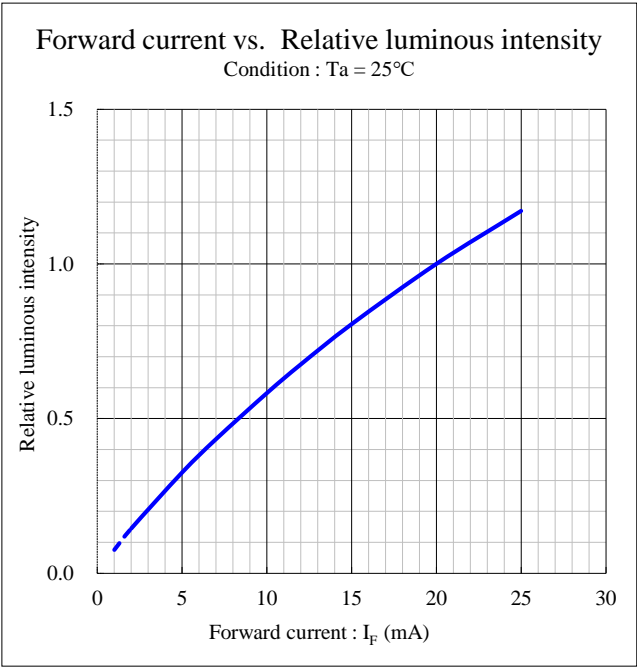
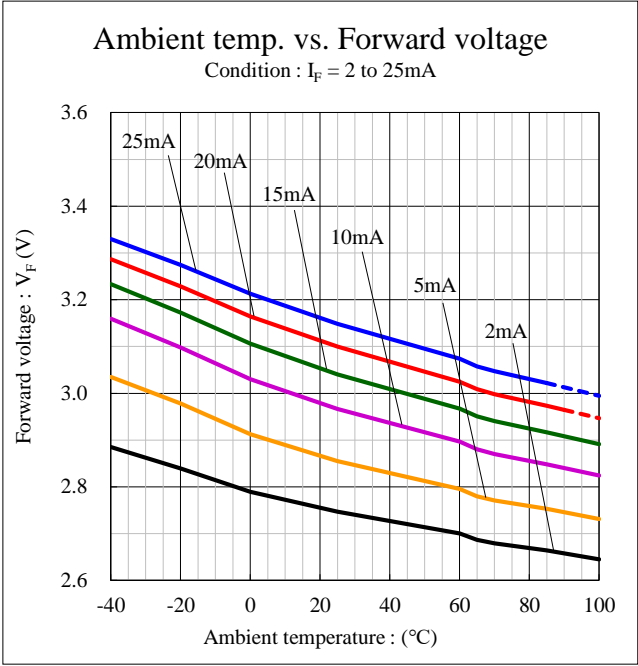
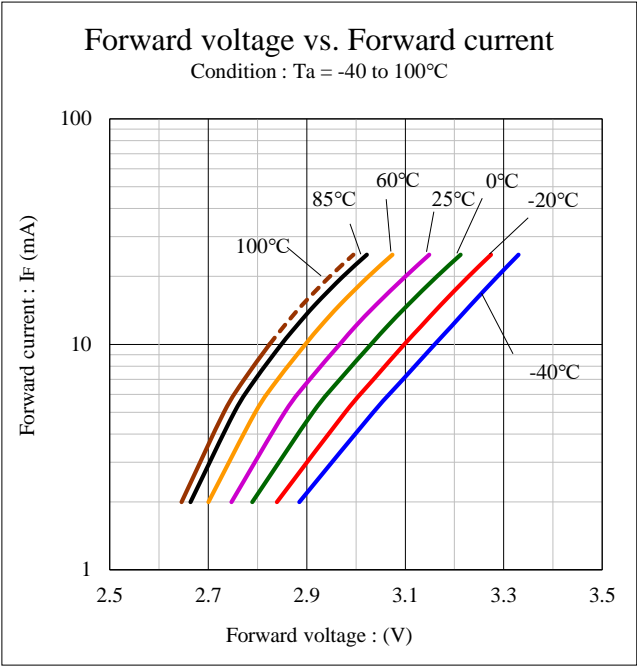
Technical Data

VXJW115ACA3S-3C3W2-TR



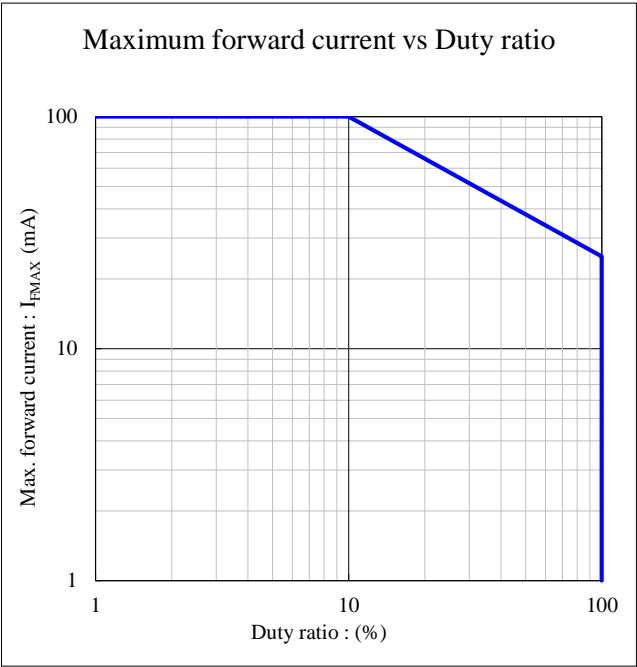
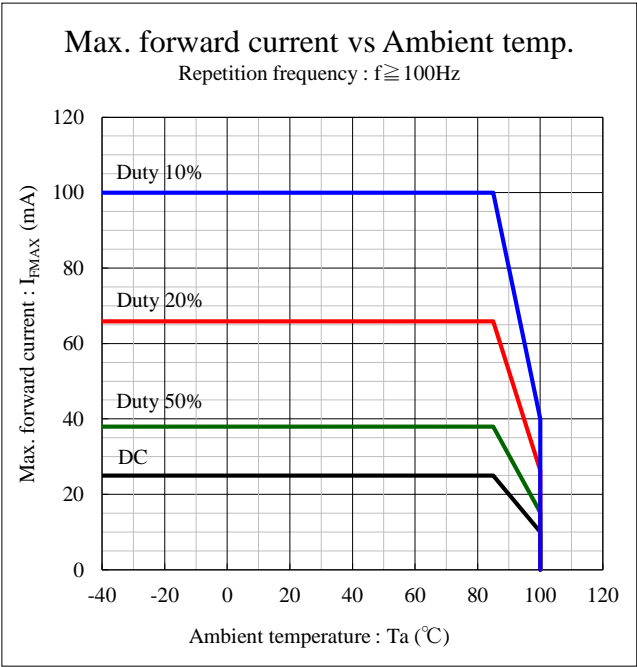
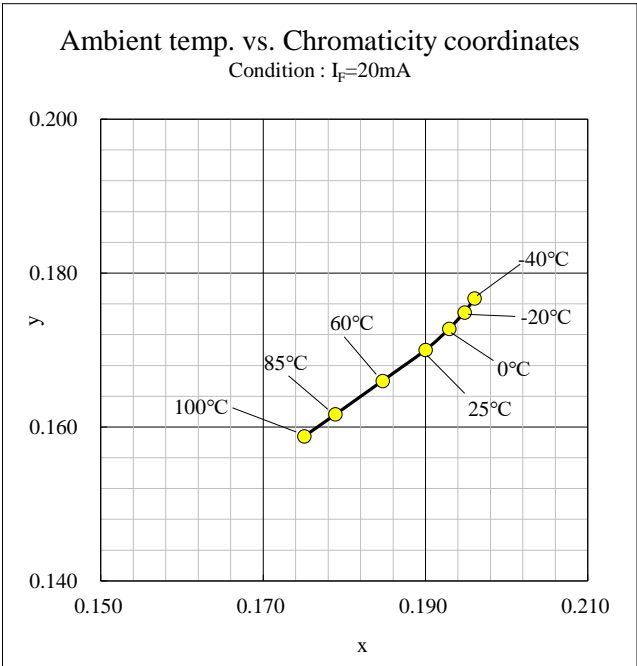
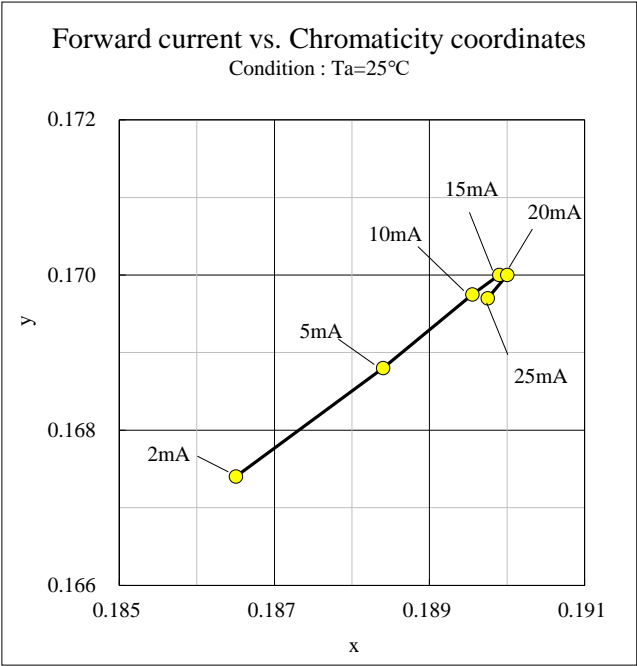
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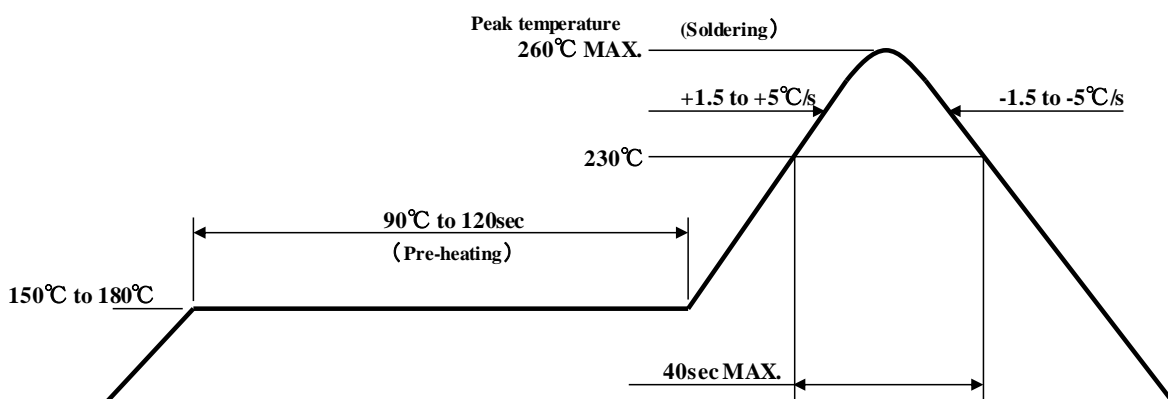
Soldering condition

VXJW115ACA3S-3C3W2-TR

(acc.to EIAJ-4701/300)

1. Heat stress during soldering will influence the reliability of LEDs, however that effect will vary on heating method. Also, if components of varying shape are soldered together, it is recommended to set the soldering pad temperature according to the component most vulnerable to heat (e.g., surface mount LED).
2. LED parts including the resin are not stable immediately after soldering (when they are not at room temperature), any mechanical stress may cause damage to the product. Please avoid such stress after soldering, especially stacking of the boards which may cause the boards to warp and any other types of friction with hard materials.
3. High hardness silicone resin is used for this product's lens, but the silicone resin has the characteristic that softens at the high temperature. There is a possibility of causing the transformation, the breakage, and peeling off of the lens when it touches the resin lens at the high temperature such as immediately after soldering. Please avoid touching the lens at the high temperature.
4. Recommended temperature profile for the Reflow soldering is listed as the temperature of the resin surface. Temperature distribution varies on heating method, PCB material, other components in the assembly, and mounting density .
Please do not repeat the heating process in Reflow process more than twice.

【Recommended reflow soldering condition】



Notes 1 Temperature Profile for the reflow should be set to the surface temperature of resin which is on the top of LED. This should be the maximum temperature for soldering. Lowering the heating temperature and decreasing heating time is very effective in achieving higher reliability.

Notes 2 The reflow soldering process should be done up to twice(2 times Max). When second process is performed, interval between first and second process should be as short as possible to prevent absorption of moisture to resin of LED. The second soldering process should not be done until LEDs have returned to room temperature (by nature-cooling) after first soldering process.

Soldering condition

VXJW115ACA3S-3C3W2-TR

5. If soldering manually, Stanley recommends using a soldering iron equipped with temperature control. During the actual soldering process, make sure that the soldering iron never touches the LED itself, and avoid the LED's electrode heating temperature reaching above the heating temperature of the solder pad. All repairs must be performed only once in the same spot, and please avoid reusing components.
6. In soldering process, immediately after iron tip is cleaned, please make sure that the soldering iron reaches the appropriate temperature, before using. Also, please avoid applying any types of pressure to the soldered components before the solder has been cooled and hardened, as it may deteriorate solder performance and solder quality.

| | |
|--------------------------|-------------------|
| Temperature of iron tip | 350°CMax. |
| Soldering duration, time | 3sec.Max., 1 time |

7. When using adhesive material for tentative fixatives, thermosetting resin or Ultraviolet radiation (UV) setting resin with heat shall be recommended.
8. When cleaning, isopropyl alcohol shall be recommended. Some chemicals, including Freon substitute detergent could corrode or affect the optical characteristics of the lens or the casing surface. Please review the reference chart below for cleaning.
Cleaning with ultrasonic shall not be recommended.

| Cleaning agents | Recommended / Not recommended |
|-------------------|-------------------------------|
| Ethyl alcohol | ✓Recommended |
| Isopropyl alcohol | ✓Recommended |
| Pure water | ✓Recommended |
| Trichloroethylene | x Not recommended |
| Chloroethene | x Not recommended |
| Acetone | x Not recommended |
| Thinner | x Not recommended |

9. Flow soldering (dip soldering) is not recommended for this product.

Handling precautions

VXJW115ACA3S-3C3W2-TR

【For Electric static discharge (ESD)】

This product is sensitive to voltage surges generated by On/Off status change and friction with synthetic materials, which may cause severe damage to the die or undermine its reliability.

Damaged products may experience conditions such as extremely high reverse voltage or decrease of forward rise voltage deteriorating their optical characteristic.

This product is packed with anti-static components. However, the following precautions must be taken into account upon product shipment.

1. Electrification / static electricity protection

In order to avoid product (die) damage from static electricity caused by electrified operator and other materials electrified friction coming in contact with the product, Stanley recommends taking the following precautions.

- ① Do not place electrified non-conductive materials near the LED product.
(Avoid LED products from coming in contact with metallic materials, should the metallic material be electrified, sudden surge voltage will most likely damaged the product.)
- ② Avoid a working process which may cause the LED product to rub against other materials.
- ③ Install ground wires for any equipment, which can be installed with such measures to avoid static electricity.
- ④ Prepare a ESD protective area by placing Conductive Mattress (1M Ω) and Ionizer to remove any static electricity.
- ⑤ Operators should wear a protective wrist-strap.
(Typically, protective wrist-strap will be equipped with 1M Ω resistors in series connection.)
- ⑥ Operators should wear conductive work-clothes, shoes and work on a conductive floor.
- ⑦ To handle the products directly, Stanley recommends the use of ceramic, and not metallic, tweezers.

2. Working environment

- ① Dry environment is more likely to cause static electricity. Although dry environment is ideal during storage state of LED products, during the soldering process, Stanley recommends an environment with approximately 50% humidity.
- ② Recommended static electricity level in the working environment is 150V, which is the same value as Integrated Circuits.

【Handling precautions for product mounting】

<Recommendation>

Load : less than 10N
(to avoid product breakage)

- ※ During mounting, because of the mounter nozzle's load and shape, the lens may break and the shape may change. Therefore, please adjust the load / nozzle adsorption point and the nozzle diameter before use. Moreover, since the occurrence of product remnants of the nozzle part is possible, please adjust the conditions before vacuum break or air discharge.
- ※ Not just the nozzle, but also regarding other tools/instruments/parts, please do not put pressure on the lens.

Handling precautions

VXJW115ACA3S-3C3W2-TR

【 Other precautions 】

1. The products are designed to achieve higher performance reliability, however, they can be influenced by usage conditions.
2. Absolute maximum ratings are set to prevent LED products from failing due to excess stress (temperature, current, voltage, etc.). These ratings must never be overrun even for a moment.
3. To achieve the highest performance reliability, it is necessary to take into account, factors such as forward voltage adjusted to the usage temperature condition, derating of the power consumption, and other variable factors.
4. Please insert Straight Protective Resistors into the circuit in order to stabilize LED operation and to prevent the device from igniting due to excess current.
5. Please avoid to stick foreign material because molding resin in the products has adhesiveness. And please don't touch lens portion.
6. Please check the actual performance in the assembly because the Specification Sheets are described for LED device only.
7. Please refrain from looking directly at the light source of LED at high output, as it may harm your vision.
8. The products are designed to operate without failure in recommended usage conditions. However, please take the necessary precautions to prevent fire, injury, and other damages should any malfunction or failure arise.
9. The products are manufactured to be used for ordinary electronic equipment. Please contact our sales staff beforehand when exceptional quality and reliability are required, and the failure or malfunction of the products might directly jeopardize life or health (such as for airplanes, aerospace, transport equipment, medical applications, nuclear reactor control systems and so on)..
10. When there is a process of supersonic wave welding etc. after mounting the product, there is a possibility of affecting on the reliability of junction part in package (junction part of die bonding and wire bonding). Please use after affirming beforehand there is no problem.
11. The formal specification sheets shall be valid only by exchange of documents by both parties.

Handling precautions

VXJW115ACA3S-3C3W2-TR

【 Applying mechanical stress to the lens 】

1. Silicone resin is used for the lens part of this product.

If strong mechanical stress is applied to the lens part, the product may be destroyed.

It is recommended that the mechanical stress applied to the lens at room temperature is 10N or less.

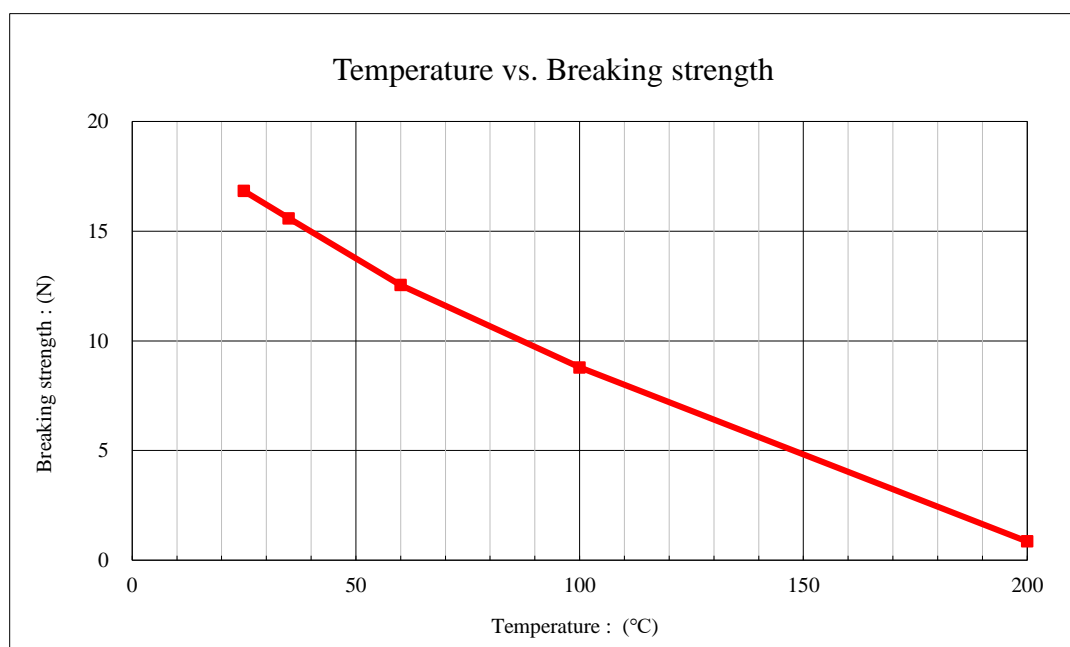
Be careful not to apply mechanical stress to the lens when applying heat.

※The product may be destroyed when other equipment, tools or parts come into contact with this product at high temperatures such as after the reflow process.

It is recommended to carry the product after applying heat after cooling to room temperature.

2. Reference data

This data obtained by applying stress from the lens side of the product and measuring the adhesive strength until breakage according to temperature.



These data charts are described for the typical products characteristics, not for the guarantee.

Packaging specifications

VXJW115ACA3S-3C3W2-TR

This product is baked (moisture removal) before packaging, and is shipped in moisture-proof packaging (as shown below) to minimize moisture absorption during transportation and storage. However, with regard to storing the products, Stanley recommends the use of dry-box under the following conditions is recommended. Moisture-proof bag as the packaging is made of anti-static material but packaging box is not.

【Recommended storage condition / Products warranty period】

| | |
|-------------|-----------|
| Temperature | +5~30°C |
| Humidity | Under 70% |

In the case of the package unopened , 6 months under 【 Recommended storage condition 】.
Please avoid rapid transition from low temp. condition to high temp. condition
and storage in corroding and dusty environment.

【Time elapsed after package opening】

The package should not be opened until immediately prior to its use, and please keep the time frame between package opening and soldering which is **【maximum 1 year.】**
If the device needs to be soldered twice, both soldering must be completed within the 1 year.

If any components should remain after their use, please seal the package and store them under the conditions described in the 【 Recommended storage condition 】.

The product must be required to perform baking process (moisture removal)
for **at least 10h and not exceed for 12h , at 60+/-5 degrees Celsius** if following conditions apply.

1. In the case of color of indicators (those are in the package of desiccant) change or lose its blue color.
2. In the case of time is passed for 672h after the package is opened once.

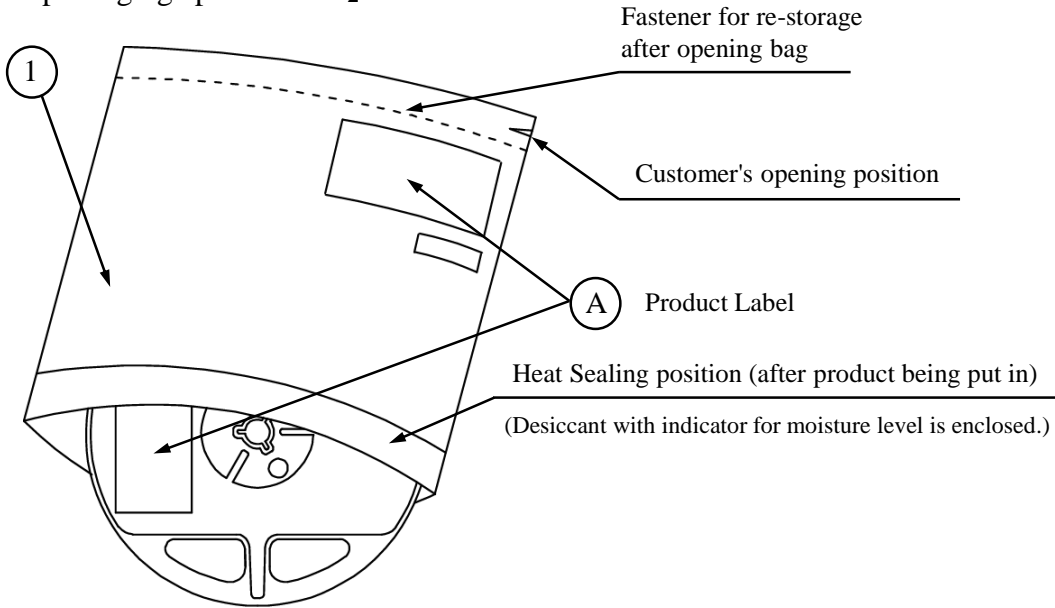
Please backing process must be performed after putting out from package.

Baking may be performed in the tape-reel form, however if it is performed with the reel stacked over one another, it may cause deformation of the reels and taping materials, which may cause problems during production.
Please make sure that the product has cooled to normal temperature after performing the baking process.
Provided that, baking process shall be 2 times Max.

Packaging specifications

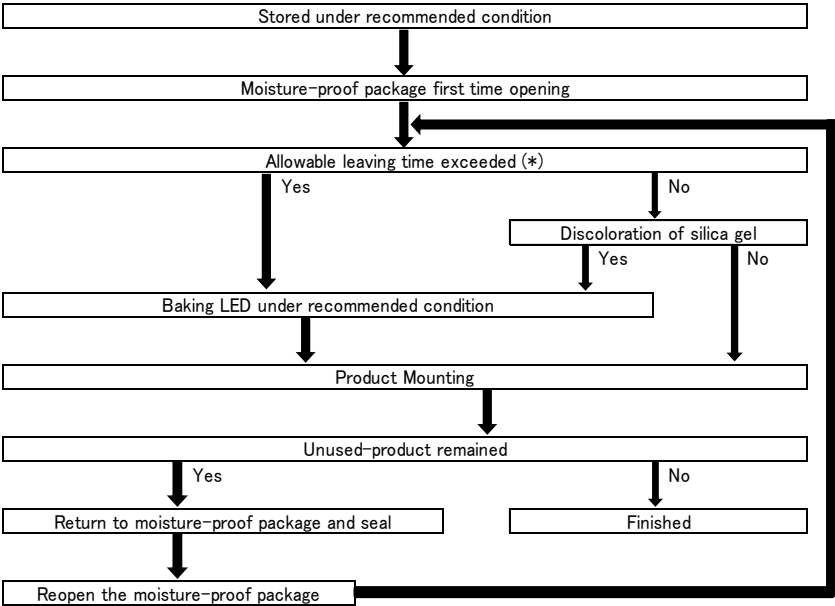
VXJW115ACA3S-3C3W2-TR

【Moisture-proof packaging specification】



| No. | Part name | Material | Remarks |
|-----|--|-----------|---------------------|
| ① | Moisture-proof bag with aluminum layer | PET+Al+PE | with ESD protection |

【Flow chart-package opening to mounting】



Allowable leaving time means the maximum allowable leaving time after opening package, which depends on each LED type.

The allowable leaving time should be calculated form the first opening of package to the time when soldering process is finished.

When judging if the allowable leaving time has exceeded or not, please subtract the soldering time. The allowable leaving time after reopening should be calculated form the first opening of package, or from the time when baking process is finished.

Packaging specifications

VXJW115ACA3S-3C3W2-TR

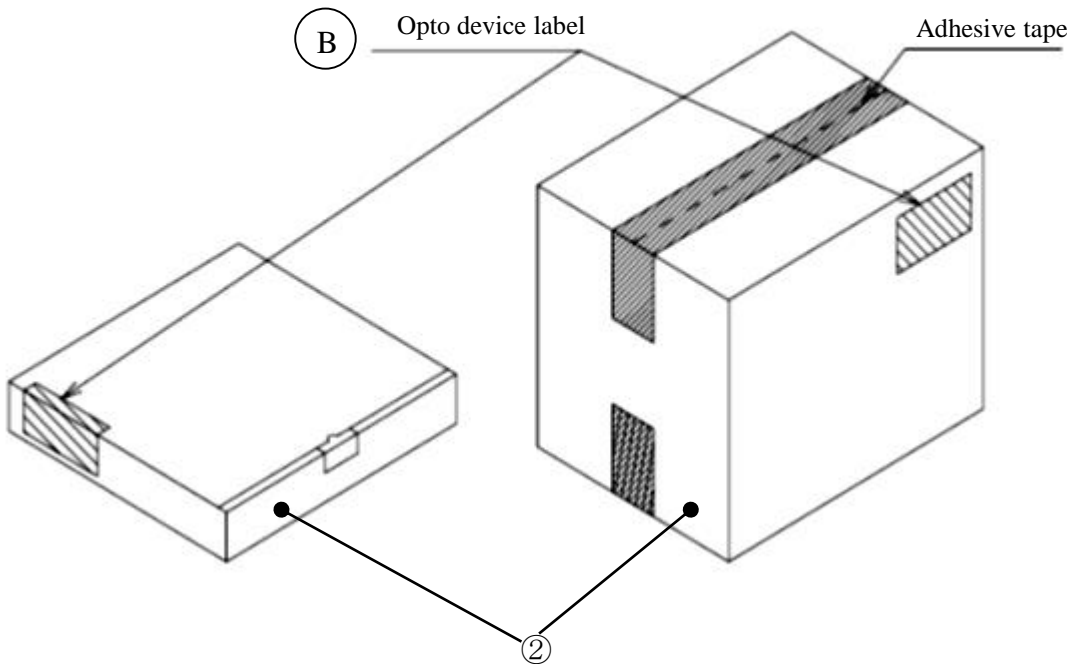
【 Packing box 】

(RoHS2/ELV compliant)

| Box type | Outline dimension L × W × H (mm) | Capacity of the box |
|----------|-------------------------------------|---------------------|
| Type A | 280 × 265 × 45 | 3 reels |
| Type B | 310 × 235 × 265 | 15 reels |
| Type C | 440 × 310 × 265 | 30 reels |
| Type D | 305 × 270 × 65 | 3 reels |
| Type E | 370 × 280 × 270 | 30 reels |
| Type F | 530 × 380 × 270 | 60 reels |

The above measurements are reference values.

The box is selected out of the above table by shipping quantity.



Type A
Material / box : Cardboard C5BF

Type B, C
Material / box : Cardboard K5AF
Partition : Cardboard K5BF

Type D
Material / box : Cardboard C5WF

Type E, F
Material / box : Cardboard BC-KA125/3CA125/KA125

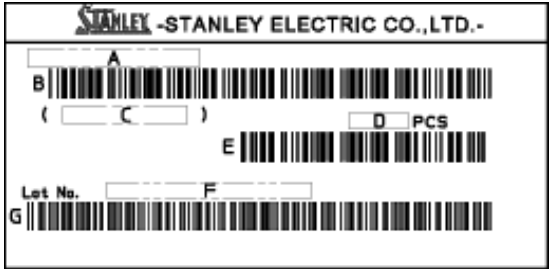
| No. | Part name | Material | Remarks |
|-----|-------------|----------------------|------------------------|
| ② | Packing box | Corrugated Cardboard | without ESD protection |

Packaging specifications

VXJW115ACA3S-3C3W2-TR

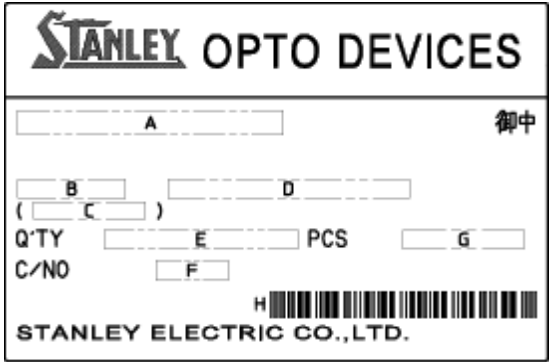
【Label specification】
(acc.to JIS-X0503(Code-39))

A Product label



- A. Parts number
- B. Bar-code for parts number
- C. Parts code (In-house identification code for each parts number)
- D. Packed parts quantity
- E. Bar-code for packed parts quantity
- F. Lot number & rank
(refer to lot number notational system for details)
- G. Bar-code for lot number & rank

B Opto device label



- A. Customer name
- B. Parts type
- C. Parts code
- D. Parts number
- E. Packed parts quantity
- F. Carton number
- G. Shipping date
- H. Bar-code for In-house identification number

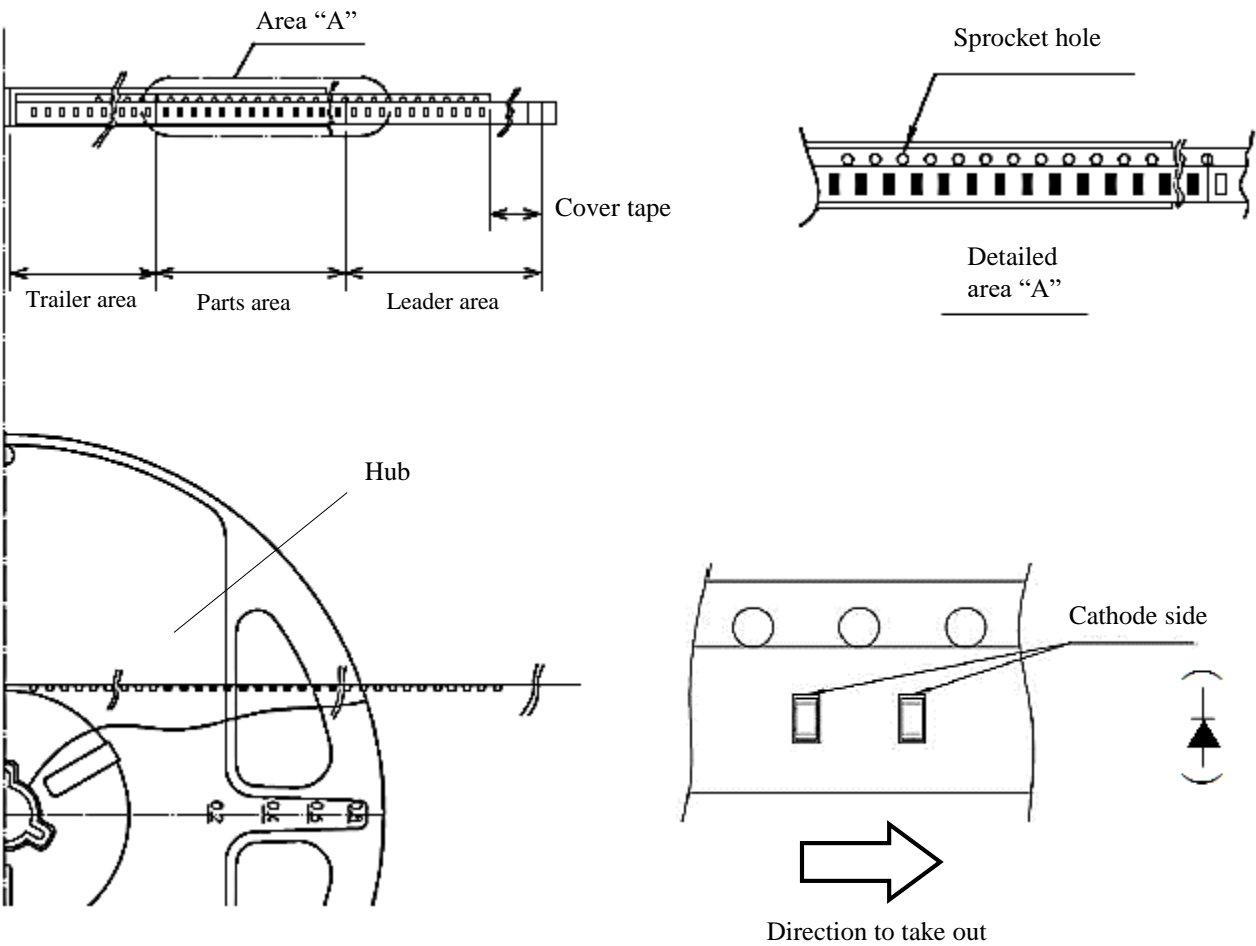
<Remark> Bar-code font : acc.to Code-39(JIS-X0503)

Taping and reel specifications

VXJW115ACA3S-3C3W2-TR

(acc.to JIS-C0806-03)

【Appearance】



Note

"-TR" means Cathode Side of LEDs should be placed on the sprocket-hole side.

| Items | | Specifications | Remarks |
|--------------|--------------|--|--|
| Leader area | Cover-tape | Cover-tape shall be longer than 300mm without carrier-tape | The end of cover-tape shall be held with adhesive tape. |
| | Carrier-tape | Empty pocket shall be more than 25 pieces. | Please refer to the above figure for Taping & reel orientation . |
| Trailer area | | Empty pocket shall be more than 40 pieces. | The end of taping shall be inserted into a slit of the hub. |

Taping and reel specifications

VXJW115ACA3S-3C3W2-TR

(acc.to JIS-C0806-03)

【Qty. per reel】

4,000parts/reel

Minimum Qty. per reel might be 500 parts when getting less than 4,000 parts. In such case, parts of 500-unit-qty. shall be packed in a reel and the qty. shall be identified on the label.

【Mechanical strength】

Cover-tape adhesive strength shall be 0.1 ~ 1.0N (An angle between carrier-tape and cover-tape shall be 170 deg.). Both tapes shall be so sealed that the contained parts will not come out from the tape when it is bent at a radius of 15mm.

【Others】

Reversed-orientation, Up-side down placing, side placing and out of spec. parts mix shall not be held. Max qty. of empty pocket per reel shall be defined as follows.

Max, qty. of empty pocket per reel shall be defined as follows.

| Qty./Reel | Max.Qty. of empty pocket | Remarks |
|-----------|--------------------------|----------------|
| 500 | 1 | - |
| 1,000 | 1 | - |
| 1,500 | 2 | - |
| 2,000 | 2 | No continuance |
| 2,500 | 3 | No continuance |
| 3,000 | 3 | No continuance |
| 3,500 | 4 | No continuance |
| 4,000 | 4 | No continuance |

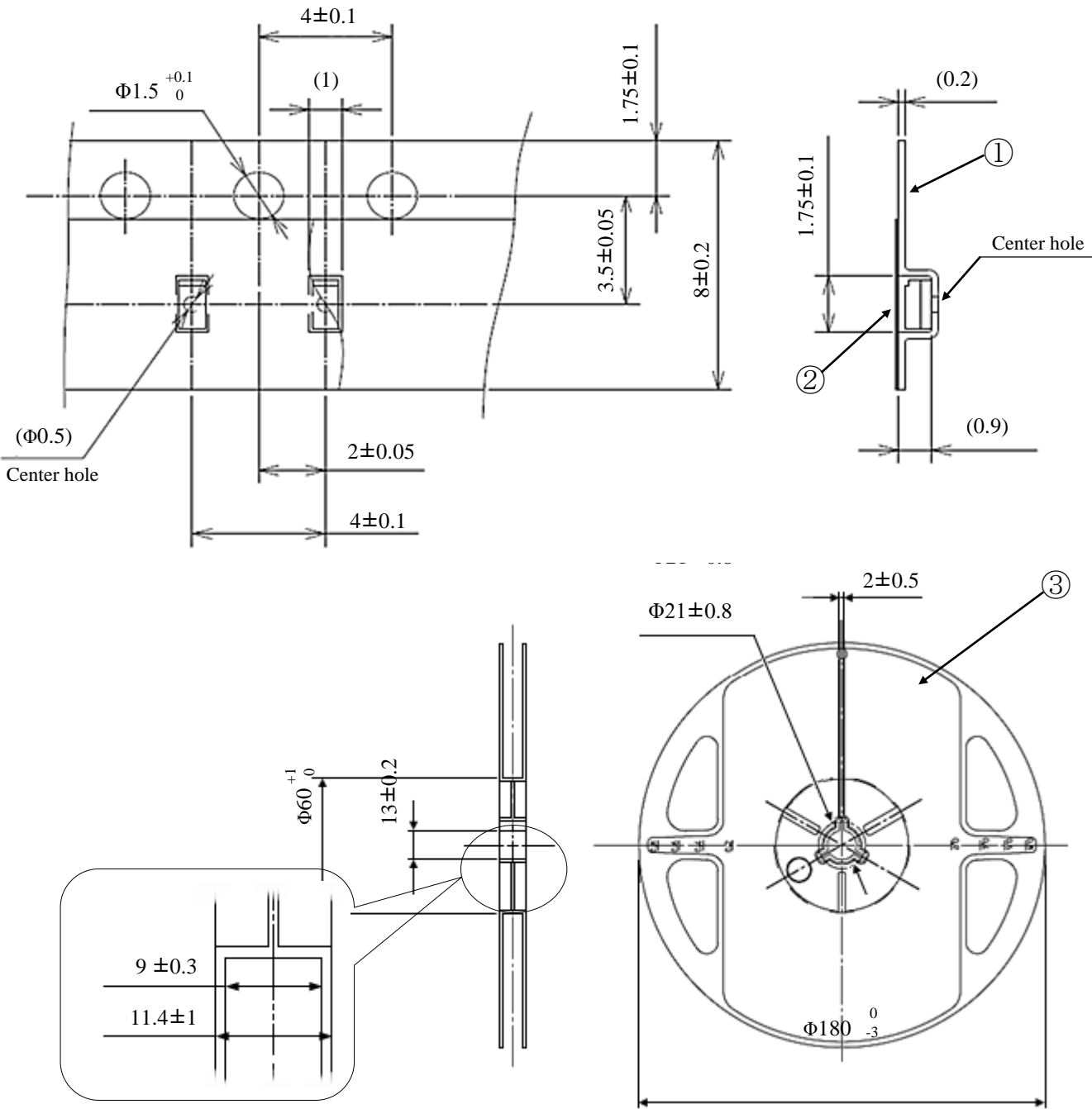
Taping and reel specifications

VXJW115ACA3S-3C3W2-TR

(acc.to JIS-C0806-03)

Unit : mm

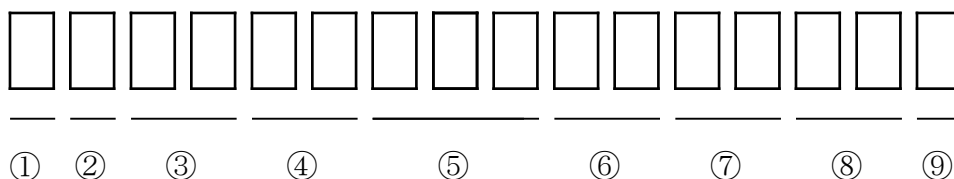
【Taping dimensions】



| No. | Part name | Remarks |
|-----|--------------|------------------|
| ① | Carrier-tape | Conductive grade |
| ② | Cover-tape | Conductive grade |
| ③ | Carrier-reel | Conductive grade |

Lot number notational system

VXJW115ACA3S-3C3W2-TR



① - 1digit : Production location (mark identify alphabet)

② - 1digit : Production year (The last digit of production year 2025→5, 2026→6, 2027→7, 2028→8 ...)

③ - 2digits : Production month (Jan. to Sep. , should be 01,02,03 ...)

④ - 2digits : Production date

⑤ - 3digits : Serial number

⑥ - 2digits : Tape and reel following number

⑦ - 2digits : Total power rank.

(If total power rank is 1 digit, "-" shall be dashed on the place for the second digit.

If there is no identified rank, "- -" is used to indicate.)

⑧ - 2digits : Wavelength rank

(If wavelength rank is 1 digit, "-" shall be dashed on the place for the second digit.

If there is no identified rank, "- -" is used to indicate.)

⑨ - 1digit : VF Rank (If rank is not defined, "-" is described.)

Compliance with RoHS / ELV

VXJW115ACA3S-3C3W2-TR

This product is in compliance with RoHS / ELV.
Prohibition substance and it's criteria value of RoHS / ELV are as follows.

- RoHS instruction ... Refer to following 1 to 10.
- ELV instruction ... Refer to following 1 to 4.

| No. | Substances | Threshold |
|-----|---------------------------------------|-----------------|
| 1 | Lead and its compounds | 0.1% (1,000ppm) |
| 2 | Mercury and its compounds | 0.1% (1,000ppm) |
| 3 | Cadmium and its compounds | 0.01% (100ppm) |
| 4 | Hexavalent chromium compounds | 0.1% (1,000ppm) |
| 5 | PBB : Polybrominated Biphenyls | 0.1% (1,000ppm) |
| 6 | PBDE : Polybrominated Biphenyl Ethers | 0.1% (1,000ppm) |
| 7 | DEHP : Bis (2-ethylhexyl) phthalate | 0.1% (1,000ppm) |
| 8 | BBP : Butyl benzyl phthalate | 0.1% (1,000ppm) |
| 9 | DBP : Dibutyl phthalate | 0.1% (1,000ppm) |
| 10 | DIBP : Diisobutyl phthalate | 0.1% (1,000ppm) |

Reliability testing result

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1. Reliability testing result

| Test item | Standard | Test condition | Duration | Failure |
|-------------------------------------|------------------------|---|----------------------|---------|
| Operating Life | EIAJ ED-4701 /100(101) | Ta=25°C Maximum rated current | 1,000h | 0 / 20 |
| High temperature operating life | EIAJ ED-4701 /100(101) | Ta=85°C Maximum rated current (※1) | 1,000h | 0 / 20 |
| Low temperature operating life | EIAJ ED-4701 /100(101) | Ta=-40°C Maximum rated current | 1,000h | 0 / 20 |
| Wet high temperature operating life | EIAJ ED-4701 /100(102) | Ta=85°C Rh=85% Maximum rated current | 1,000h | 0 / 20 |
| High temperature storage life | EIAJ ED-4701 /200(201) | Ta=Tstg max. Maximum storage temperature | 1,000h | 0 / 20 |
| Low temperature storage life | EIAJ ED-4701 /200(202) | Ta=Tstg min. Minimum storage temperature | 1,000h | 0 / 20 |
| Wet high temperature storage life | EIAJ ED-4701 /100(101) | Ta=85°C Rh=85% | 1,000h | 0 / 20 |
| Thermal shock | EIAJ ED-4701 /100(105) | Ta=Tstg max. to Tstg min. (each 15min) | 1,000 cycles | 0 / 20 |
| Resistance to reflow soldering | EIAJ ED-4701 /300(301) | Moisture soak : 85°C 60% 168h Preheating : 150 to 180°C 90 to 120s Soldering : 260°C 5sec | 2times | 0 / 20 |
| Electric static discharge(ESD) | EIAJ ED-4701 /300(304) | C=100pF R2=1.5kΩ ± 2,000V | 3times each polarity | 0 / 10 |
| Vibration, variable frequency (※2) | EIAJ ED-4701 /400(403) | 98.1m/s ² (10G) 100 to 2,000Hz 20min sweep XYZ direction | 2h of each direction | 0 / 10 |

※1 Maximum rated current at maximum rated operating temperature

※2 Reference test

2. Failure criteria

| Item | Symbol | Condition | Failure criteria |
|---------------------|----------------|----------------------|--|
| Luminous intensity | I _v | I _F =20mA | Testing Min. Value < Standard Min. Value × 0.5 |
| Forward voltage | V _F | I _F =20mA | Testing Max. Value ≥ Standard Max. Value × 1.2 |
| Reverse current | I _R | V _R =5V | Testing Max. Value ≥ Standard Max. Value × 2.5 |
| Cosmetic appearance | - | - | Notable, decolation, deformation and cracking |

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