

EAHP3535WA8

Introduction

The EAHP3535 series is a surface-mount high-power device featuring high brightness combined with a compact size that is suitable for all kinds of lighting applications such as general illumination, flash, spot, signal, industrial and commercial lighting. The thermal pad of this device is electrically isolated providing convenience in thermal and electrical design. The EAHP3535 series is

one of the most promising devices in Everlight's high power product offering and is ready to face the challenges of today's Solid-State Lighting requirements.



Features

- ◆ LM-80 Certified
- ◆ Small package with high efficiency
- ◆ ESD protection up to 8KV
- ◆ Soldering method: SMT
- ◆ Binning Parameters: Brightness, Forward Voltage ,Wavelength and Chromaticity
- ◆ Moisture Sensitivity Level: 1
- ◆ RoHS compliant
- ◆ Matches ANSI binning

Applications

- ◆ General Lighting
- ◆ Decorative and Entertainment Lighting
- ◆ Signal and Symbol Luminaries for orientation marker lights (e.g. steps, exit ways, etc.)
- ◆ Exterior and Interior Automotive Illumination
- ◆ Agriculture Lighting

Table of Contents

| | |
|---|----|
| JEDEC Moisture Sensitivity..... | 3 |
| PN of the EAHP3535 series: White LEDs | 4 |
| Optical Characteristics | 13 |
| Mechanical Dimension | 14 |
| Pad Configuration | 15 |
| Reflow Soldering Characteristics | 16 |
| Wavelength Characteristics..... | 17 |
| Typical Light Output Characteristic V.S. Thermal Pad Temperature..... | 19 |
| Typical Electrical Characteristics..... | 20 |
| Typical Relative Luminous Flux V.S. Forward Current | 21 |
| Typical Wavelength & CCT Shift Characteristics..... | 23 |
| Current Derating Curves | 25 |
| Relative Flux and Forward Voltage V.S. Junction Temperature..... | 26 |
| Current Derating Curves | 27 |
| Emitter Tape Packaging | 29 |
| Emitter Reel Packaging..... | 30 |
| Product Labeling | 30 |
| Storage Conditions..... | 31 |
| Revision History | 32 |

Absolute Maximum Ratings

| Parameter | Symbol | Ratings | Unit |
|------------------------------|-------------|---------------------------|--------|
| Max. DC Forward Current (mA) | I_F | 800 | mA |
| Max. Peak Pulse Current (mA) | I_{Pulse} | 1250 | mA |
| Max. ESD Resistance | V_B | 8000 | V |
| Reverse Voltage | V_R | Note 3 | V |
| Thermal Resistance | R_{th} | 10 ~ 12 _[4] | °C/W |
| Max. Junction Temperature | T_J | 125 _[5] | °C |
| Operating Temperature | T_{Opr} | -40 ~ +100 _[6] | °C |
| Storage Temperature | T_{Stg} | -40 ~ +100 | °C |
| Max. Soldering Temperature | T_{Sol} | 260 | °C |
| Max. Allowable Reflow Cycles | n/a | 2 | cycles |

Notes:

- EAHP3535 series Maximum forward current is 800mA (Thermal Pad=25°C)
- Duty cycle = 1/10@1KHZ

JEDEC Moisture Sensitivity

| Level | Floor Life | | Soak Requirements Standard | |
|-------|--------------|---|----------------------------|---------------|
| | Time (hours) | Conditions | Time (hours) | Conditions |
| 1 | Unlimited | $\leq 30^\circ\text{C} / 85\% \text{ RH}$ | 168 (+5/-0) | 85°C / 85% RH |

PN of the EAHP3535 series: White LEDs

| Color | Order Code | Minimum Luminous Flux (lm) | CCT (K) Wavelength (nm) | Forward Voltage (V) | CRI (min) |
|-----------------|-------------|----------------------------|-------------------------|---------------------|-----------|
| Cool White 6500 | EAHP3535WA8 | 120 | 65K-1~65K-4 | 2.65~3.85 | 70 |

Notes:

1. CRI measurement tolerance: ± 2 .
2. Each 1W white PN is based on the min. bin, and includes two adjacent bins

EVERLIGHT

Product Binning

Luminous Flux Bins

| Group | Bin | Minimum Photometric Flux (lm) | Maximum Photometric Flux (lm) |
|-------|-----|-------------------------------|-------------------------------|
| E | 1 | 4 | 5 |
| | 2 | 5 | 6 |
| | 3 | 6 | 8 |
| | 4 | 8 | 10 |
| | 5 | 10 | 13 |
| | 6 | 13 | 17 |
| | 7 | 17 | 20 |
| | 8 | 20 | 23 |
| | 9 | 23 | 27 |
| F | 1 | 27 | 33 |
| | 2 | 33 | 39 |
| | 3 | 39 | 45 |
| | 4 | 45 | 52 |
| | 5 | 52 | 60 |
| | 6 | 60 | 70 |
| | 7 | 70 | 80 |
| | 8 | 80 | 90 |
| | 9 | 90 | 100 |

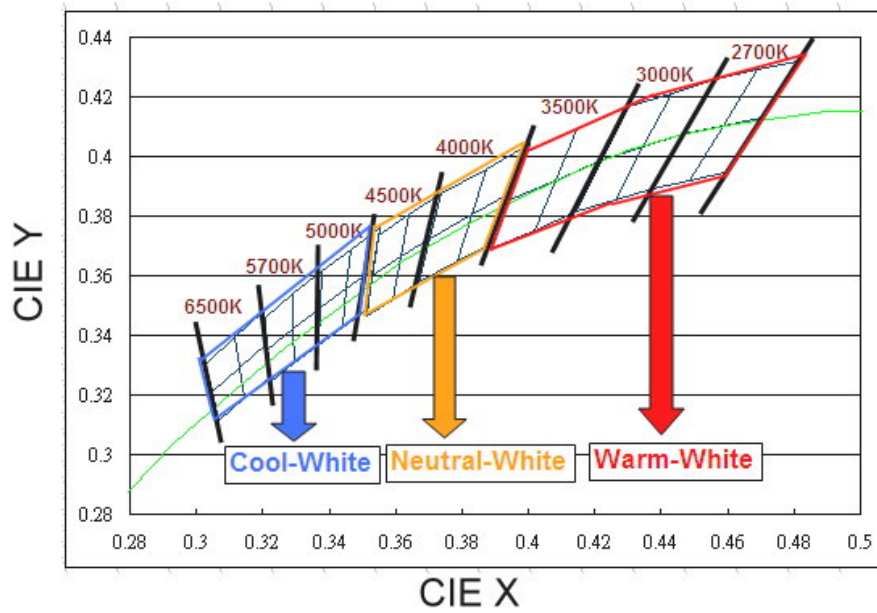
| Group | Bin | Minimum Photometric Flux (lm) | Maximum Photometric Flux (lm) |
|-------|-----|-------------------------------|-------------------------------|
| J | 1 | 100 | 110 |
| | 2 | 110 | 120 |
| | 3 | 120 | 130 |
| | 4 | 130 | 140 |
| | 5 | 140 | 150 |
| | 6 | 150 | 160 |
| | 7 | 160 | 180 |
| | 8 | 180 | 200 |
| | 9 | 200 | 225 |
| K | 1 | 225 | 250 |
| | 2 | 250 | 275 |
| | 3 | 275 | 300 |
| | 4 | 300 | 325 |
| | 5 | 325 | 350 |
| | 6 | 350 | 375 |
| | 7 | 375 | 400 |
| | 8 | 400 | 425 |
| | 9 | 425 | 450 |
| N | 1 | 450 | 475 |
| | 2 | 475 | 500 |
| | 3 | 500 | 525 |
| | 4 | 525 | 550 |

Radiometric Power Bins

| Group | Bin | Minimum Radiometric Power(mW) | Maximum Radiometric Power(mW) |
|-------|-----|-------------------------------|-------------------------------|
| Q | 1 | 0 | 25 |
| | 2 | 25 | 50 |
| | 3 | 50 | 75 |
| | 4 | 75 | 100 |
| | 5 | 100 | 125 |
| | 6 | 125 | 175 |
| | 7 | 175 | 225 |
| | 8 | 225 | 275 |
| | 9 | 275 | 350 |

| Group | Bin | Minimum Radiometric Power(mW) | Maximum Radiometric Power(mW) |
|-------|-----|-------------------------------|-------------------------------|
| R | 1 | 350 | 425 |
| | 2 | 425 | 500 |
| | 3 | 500 | 600 |
| | 4 | 600 | 700 |
| | 5 | 700 | 800 |
| | 6 | 800 | 900 |
| | 7 | 900 | 1000 |
| | 8 | 1000 | 1300 |
| | 9 | 1300 | 1600 |

White Bin Structure

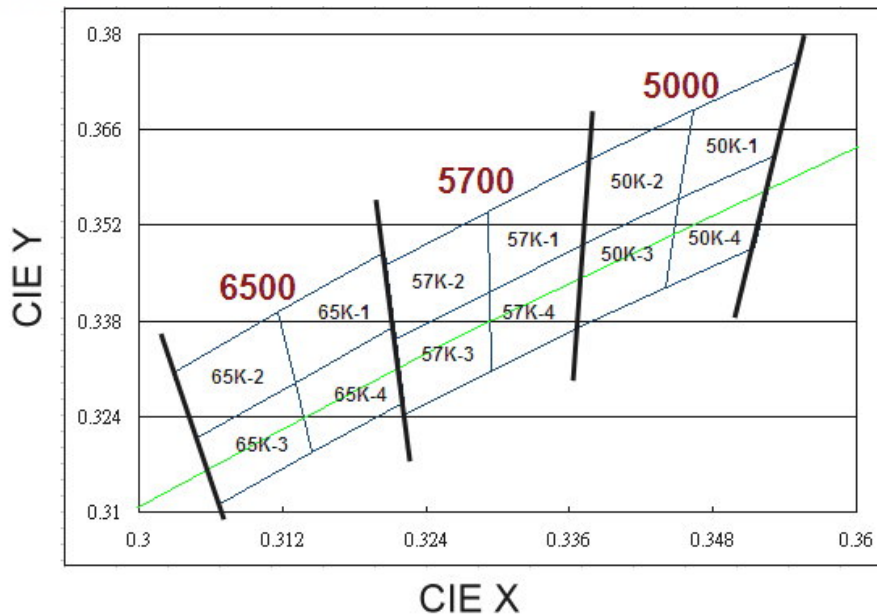


Chromaticity specification defined by ANSI

Notes:

1. The CCT range of Cool-White varies from 4745K to 7050K.
2. The CCT range of Neutral-White varies from 3710K to 4745K.
3. The CCT range of Warm-White varies from 2580K to 3710K
4. Color coordinates measurement allowance : ± 0.01
5. Color bins are defined at $I_F=350\text{mA}$ operation.

Cool-White Bin Structure



Cool-White Bin Coordinates

5000K

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 50K-1 | 0.346 | 0.369 |
| | 0.345 | 0.356 |
| | 0.353 | 0.362 |
| | 0.355 | 0.376 |
| Reference Range: 4745~5000K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 50K-2 | 0.338 | 0.362 |
| | 0.337 | 0.349 |
| | 0.345 | 0.356 |
| | 0.346 | 0.369 |
| Reference Range: 5000~5310K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 50K-4 | 0.345 | 0.356 |
| | 0.344 | 0.343 |
| | 0.352 | 0.349 |
| | 0.353 | 0.362 |
| Reference Range: 4745~5000K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 50K-3 | 0.337 | 0.349 |
| | 0.337 | 0.337 |
| | 0.344 | 0.343 |
| | 0.345 | 0.356 |
| Reference Range: 5000~5310K | | |

5700K

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 57K-1 | 0.329 | 0.354 |
| | 0.329 | 0.342 |
| | 0.337 | 0.349 |
| | 0.338 | 0.362 |
| Reference Range: 5310~5700K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 57K-2 | 0.321 | 0.346 |
| | 0.321 | 0.335 |
| | 0.329 | 0.342 |
| | 0.329 | 0.354 |
| Reference Range: 5700~6020K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 57K-4 | 0.329 | 0.342 |
| | 0.329 | 0.331 |
| | 0.337 | 0.337 |
| | 0.337 | 0.349 |
| Reference Range: 5310~5700K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 57K-3 | 0.321 | 0.335 |
| | 0.322 | 0.324 |
| | 0.329 | 0.331 |
| | 0.329 | 0.342 |
| Reference Range: 5700~6020K | | |

6500K

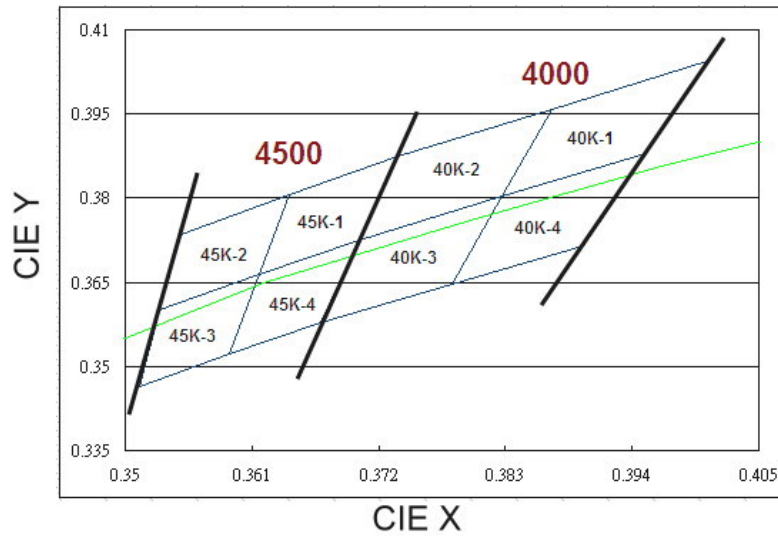
| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 65K-1 | 0.312 | 0.339 |
| | 0.313 | 0.329 |
| | 0.321 | 0.337 |
| | 0.321 | 0.348 |
| Reference Range: 6020~6500K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 65K-2 | 0.303 | 0.330 |
| | 0.305 | 0.321 |
| | 0.313 | 0.329 |
| | 0.312 | 0.339 |
| Reference Range: 6500~7050K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 65K-4 | 0.313 | 0.329 |
| | 0.315 | 0.319 |
| | 0.322 | 0.326 |
| | 0.321 | 0.337 |
| Reference Range: 6020~6500K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 65K-3 | 0.305 | 0.321 |
| | 0.307 | 0.311 |
| | 0.315 | 0.319 |
| | 0.313 | 0.329 |
| Reference Range: 6500~7050K | | |

Neutral-White Bin Structure



Neutral-White Bin Coordinates

4000K

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 40K-1 | 0.387 | 0.396 |
| | 0.383 | 0.380 |
| | 0.395 | 0.388 |
| | 0.401 | 0.404 |
| Reference Range: 3710~4000K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 40K-2 | 0.374 | 0.387 |
| | 0.370 | 0.373 |
| | 0.383 | 0.380 |
| | 0.387 | 0.396 |
| Reference Range: 4000~4260K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 40K-4 | 0.383 | 0.380 |
| | 0.378 | 0.365 |
| | 0.390 | 0.372 |
| | 0.395 | 0.388 |
| Reference Range: 3710~4000K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 40K-3 | 0.370 | 0.373 |
| | 0.367 | 0.358 |
| | 0.378 | 0.365 |
| | 0.383 | 0.380 |
| Reference Range: 4000~4260K | | |

4500K

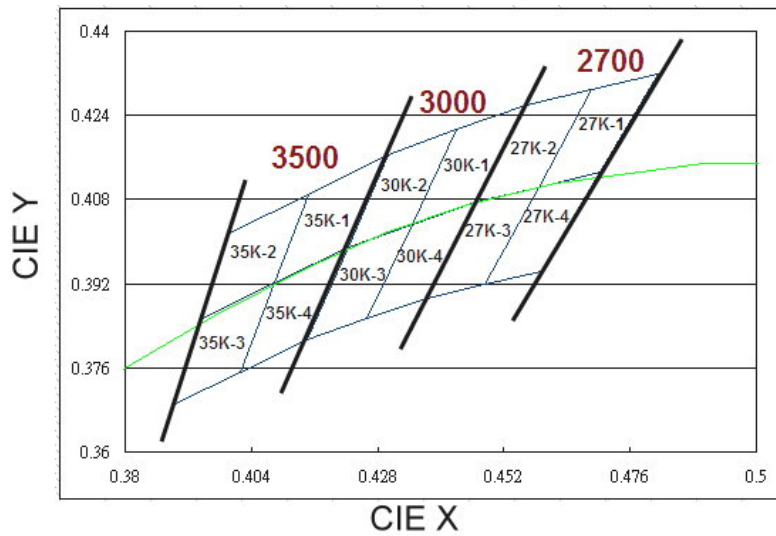
| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 45K-1 | 0.364 | 0.381 |
| | 0.362 | 0.366 |
| | 0.370 | 0.373 |
| | 0.374 | 0.387 |
| Reference Range: 4260~4500K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 45K-2 | 0.355 | 0.374 |
| | 0.353 | 0.360 |
| | 0.362 | 0.366 |
| | 0.364 | 0.381 |
| Reference Range: 4500~4745K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 45K-4 | 0.362 | 0.366 |
| | 0.359 | 0.352 |
| | 0.367 | 0.358 |
| | 0.370 | 0.373 |
| Reference Range: 4260~4500K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 45K-3 | 0.353 | 0.360 |
| | 0.351 | 0.347 |
| | 0.359 | 0.352 |
| | 0.362 | 0.366 |
| Reference Range: 4500~4745K | | |

Warm-White Bin Structure



Warm-White Bin Coordinates

2700K

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 27K-1 | 0.469 | 0.429 |
| | 0.459 | 0.410 |
| | 0.470 | 0.413 |
| | 0.481 | 0.432 |
| Reference Range: 2580~2700K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 27K-2 | 0.456 | 0.426 |
| | 0.447 | 0.408 |
| | 0.459 | 0.410 |
| | 0.469 | 0.429 |
| Reference Range: 2700~2870K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 27K-4 | 0.459 | 0.410 |
| | 0.448 | 0.392 |
| | 0.459 | 0.394 |
| | 0.470 | 0.413 |
| Reference Range: 2580~2700K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 27K-3 | 0.447 | 0.408 |
| | 0.437 | 0.389 |
| | 0.448 | 0.392 |
| | 0.459 | 0.410 |
| Reference Range: 2700~2870K | | |

3000K

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 30K-1 | 0.443 | 0.421 |
| | 0.435 | 0.403 |
| | 0.447 | 0.408 |
| | 0.456 | 0.426 |
| Reference Range: 2870~3000K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 30K-2 | 0.430 | 0.417 |
| | 0.422 | 0.399 |
| | 0.435 | 0.403 |
| | 0.443 | 0.421 |
| Reference Range: 3000~3220K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 30K-4 | 0.435 | 0.403 |
| | 0.426 | 0.385 |
| | 0.437 | 0.389 |
| | 0.447 | 0.408 |
| Reference Range: 2870~3000K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 30K-3 | 0.422 | 0.399 |
| | 0.415 | 0.381 |
| | 0.426 | 0.385 |
| | 0.435 | 0.403 |
| Reference Range: 3000~3220K | | |

3500K

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 35K-1 | 0.415 | 0.409 |
| | 0.408 | 0.392 |
| | 0.422 | 0.399 |
| | 0.430 | 0.417 |
| Reference Range: 3220~3500K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 35K-2 | 0.400 | 0.402 |
| | 0.394 | 0.385 |
| | 0.408 | 0.392 |
| | 0.415 | 0.409 |
| Reference Range: 3500~3710K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 35K-4 | 0.408 | 0.392 |
| | 0.402 | 0.375 |
| | 0.415 | 0.381 |
| | 0.422 | 0.399 |
| Reference Range: 3220~3500K | | |

| Bin | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 35K-3 | 0.394 | 0.385 |
| | 0.389 | 0.369 |
| | 0.402 | 0.375 |
| | 0.408 | 0.392 |
| Reference Range: 3500~3710K | | |

Note: Currently available typical CCT ranges are 3000K, 5700K, and 6500K CCT.

Forward Voltage Bins

| Group Name | Bins |
|------------|-------------|
| A | U1+U2+U3+U4 |
| B | U2+U3+U4+V1 |
| C | U4+V1+V2+V3 |
| D | V1+V2+V3+V4 |

| Bin | Minimum Forward Voltage (V) | Maximum Forward Voltage (V) |
|-----|-----------------------------|-----------------------------|
| U1 | 1.75 | 2.05 |
| U2 | 2.05 | 2.35 |
| U3 | 2.35 | 2.65 |
| U4 | 2.65 | 2.95 |
| V1 | 2.95 | 3.25 |
| V2 | 3.25 | 3.55 |
| V3 | 3.55 | 3.85 |
| V4 | 3.85 | 4.15 |

Notes:

1. Forward voltage measurement tolerance: $\pm 0.1V$.
2. Forward voltage bins are defined at $I_f=350mA$ operation.
3. Other Forward Voltage bins for White LEDs available upon request. Please contact your local Everlight sales office.

Color Bins

| Group | Bin | Minimum Dominant Wavelength (nm) | Maximum Dominant Wavelength (nm) |
|---------------------|-----|----------------------------------|----------------------------------|
| B (Blue) | 1 | 430 | 435 |
| | 2 | 435 | 440 |
| | 3 | 440 | 445 |
| | 4 | 445 | 450 |
| | 5 | 450 | 455 |
| | 6 | 455 | 460 |
| | 7 | 460 | 465 |
| | 8 | 465 | 470 |
| G (Green) | 1 | 520 | 525 |
| | 2 | 525 | 530 |
| | 3 | 530 | 535 |
| | 4 | 535 | 540 |
| | 5 | 540 | 545 |
| | 6 | 545 | 550 |
| A (Amber) | 1 | 580 | 582.5 |
| | 2 | 582.5 | 585 |
| | 3 | 585 | 587.5 |
| | 4 | 587.5 | 590 |
| | 5 | 590 | 592.5 |
| | 6 | 592.5 | 595 |
| R (Red) | 3 | 610 | 615 |
| | 4 | 615 | 620 |
| | 5 | 620 | 625 |
| | 6 | 625 | 630 |

Notes:

1. Dominant wavelength measurement tolerance: $\pm 0.1\text{nm}$.
2. Dominant wavelength bins are defined at $I_f=350\text{mA}$ operation.

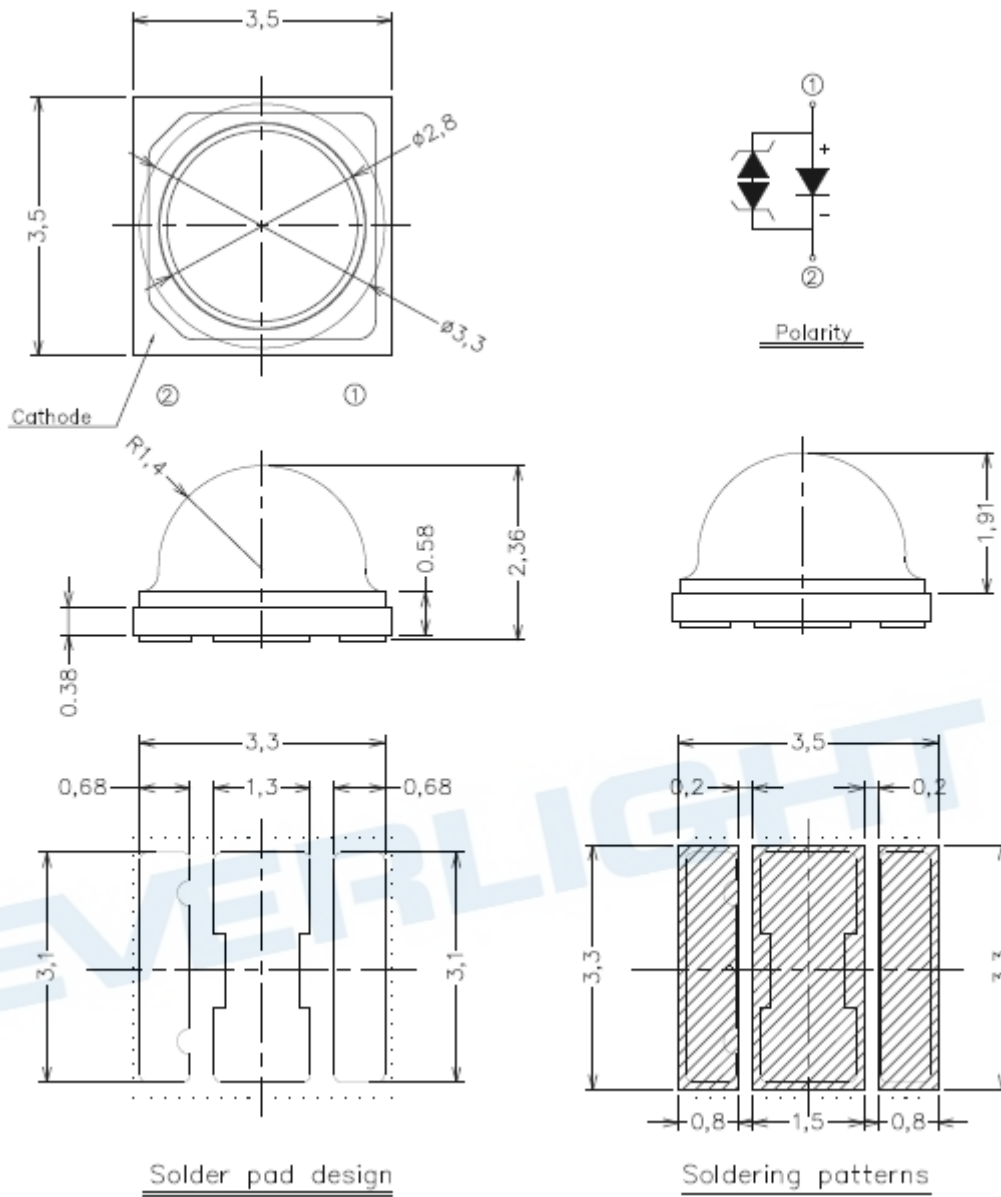
Optical Characteristics

| Color | Dominant Wavelength λ_D Peak Wavelength λ_P Color Temperature CCT | | | Typical Temperature Coefficient of Dominant Wavelength (nm/°C)-($\Delta\lambda_D/\Delta T_J$) | Typical Viewing Angle (degrees) $2\theta_{1/2}$ |
|---------------|---|-------|-------|--|--|
| | Min. | Typ. | Max. | | |
| Cool-White | 4745K | 5700K | 7050K | --- | Note 5 |
| Neutral-White | 3710K | 4260K | 4745K | --- | Note 5 |
| Warm-White | 2580K | 3000K | 3710K | --- | Note 5 |
| Red | 620nm | --- | 630nm | 0.05 | 120 |
| Orange | 610nm | --- | 620nm | 0.08 | 120 |
| Amber | 585nm | --- | 595nm | 0.1 | 120 |
| Green | 520nm | --- | 535nm | 0.05 | 120 |
| Blue | 460nm | --- | 470nm | 0.05 | 120 |
| Deep-Red | 645nm | --- | 675nm | 0.08 | 120 |
| Far-Red | 715nm | --- | 745nm | 0.04 | 120 |

Notes:

1. The test tolerance of Everlight is $\pm 0.5\text{nm}$ for dominant wavelength, $\pm 5\%$ for CCT.
2. Viewing angle is the width of half the light output intensity in all directions of 180° .
3. All Cool-White, Neutral-White, Warm-White, and dominant wavelength below 550nm LEDs are made with Indium Gallium Nitride (InGaN).
4. All LEDs with dominant wavelength exceeding 550nm are made with Aluminum Indium Gallium Phosphide (AlInGaP).

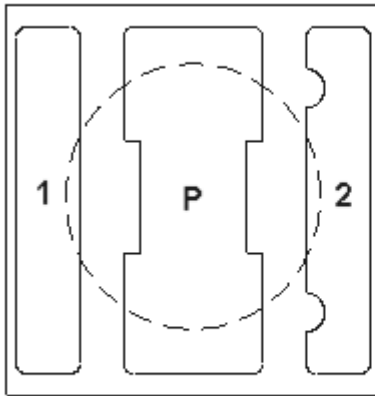
Mechanical Dimension



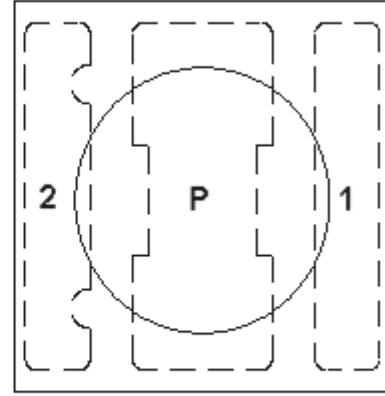
Notes:

1. Dimensions are in millimeters.
2. Tolerances unless mentioned are ± 0.15 mm.
3. The thermal pad is electrically isolated from the Anode and Cathode contact pads.
4. Do not handle the device by the lens. Incorrect force applied to the lens may lead to the failure of devices.

Pad Configuration



BOTTOM VIEW



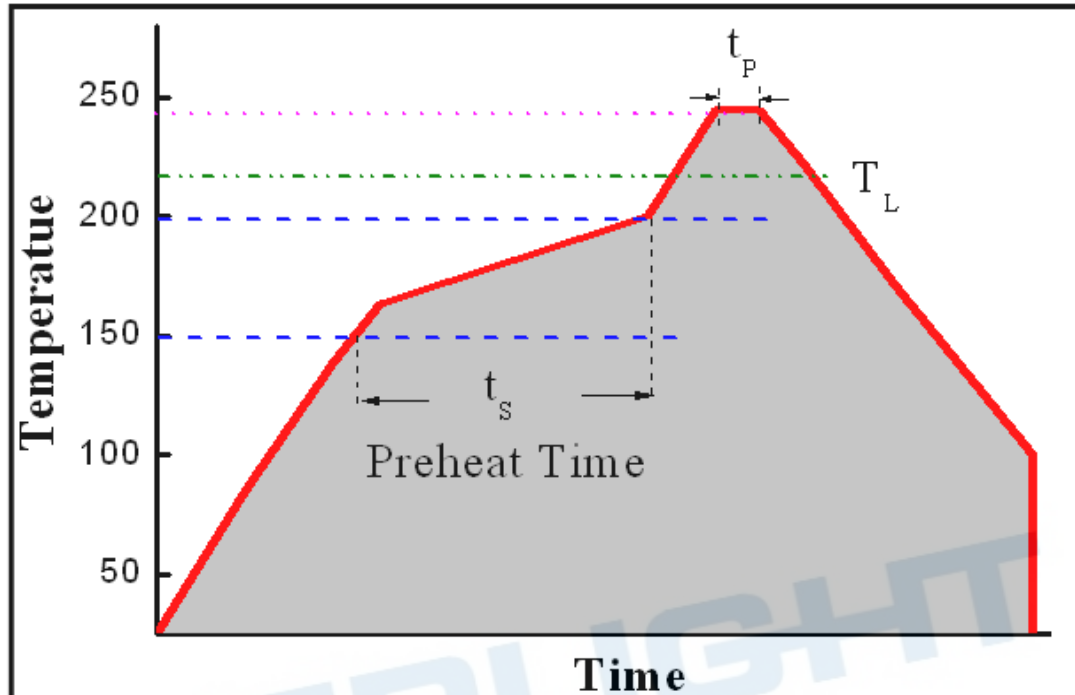
TOP VIEW

| PAD | FUNCTION |
|-----|-------------|
| 1 | ANODE |
| 2 | CATHODE |
| P | THERMAL PAD |

Reflow Soldering Characteristics

For Reflow Process

- a. EAHP3535 series are suitable for SMT processes.
- b. Curing of glue in oven must be according to standard operation flow processes.

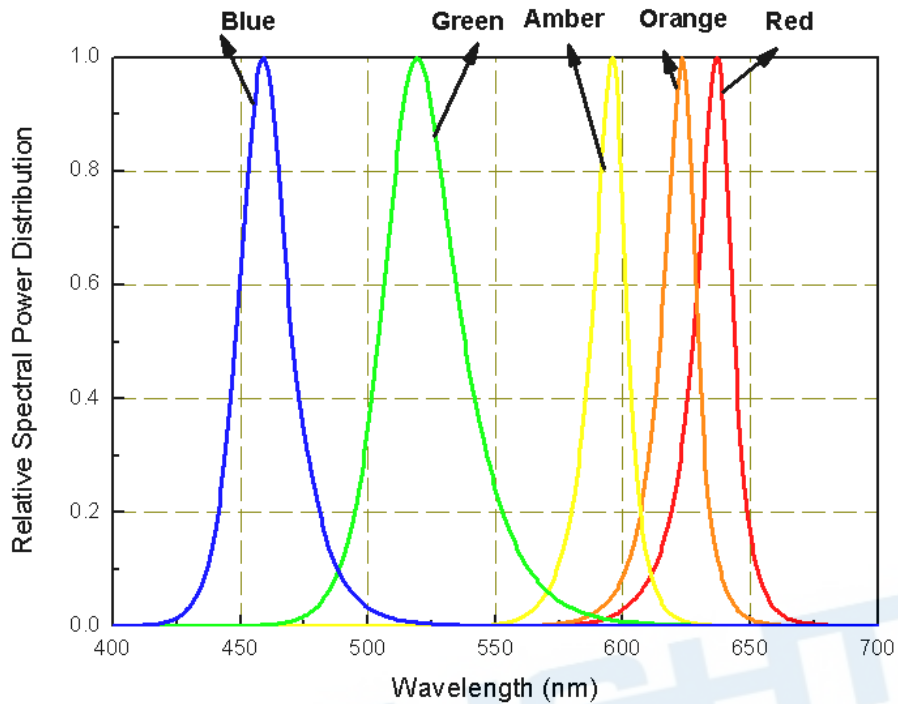


| Profile Feature | Lead Free Assembly |
|------------------------------|--------------------|
| Ramp-Up Rate | 2-3 °C/S |
| Preheat Temperature | 150-200 °C |
| Preheat Time (t_s) | 60-120 S |
| Liquid Temperature (T_L) | 217 °C |
| Time maintained above T_L | 60-90 S |
| Peak Temperature (T_P) | 240±5 °C |
| Peak Time (t_P) | Max 20 S |
| Ramp-Down Rate | 3-5 °C/S |

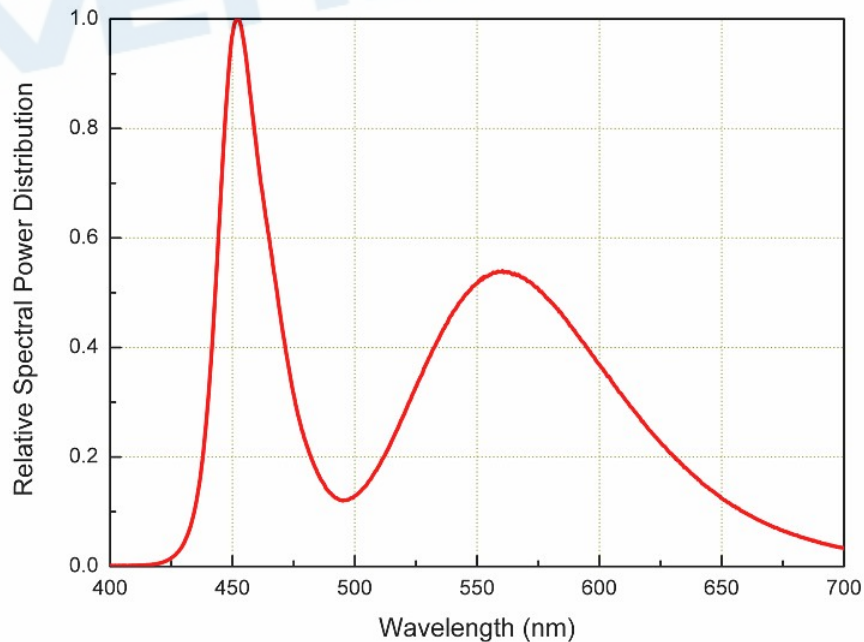
- c. Reflow soldering should not be done more than twice.
- d. In soldering process, stress on the LEDs during heating should be avoided.
- e. After soldering, do not bend the circuit board.

Wavelength Characteristics

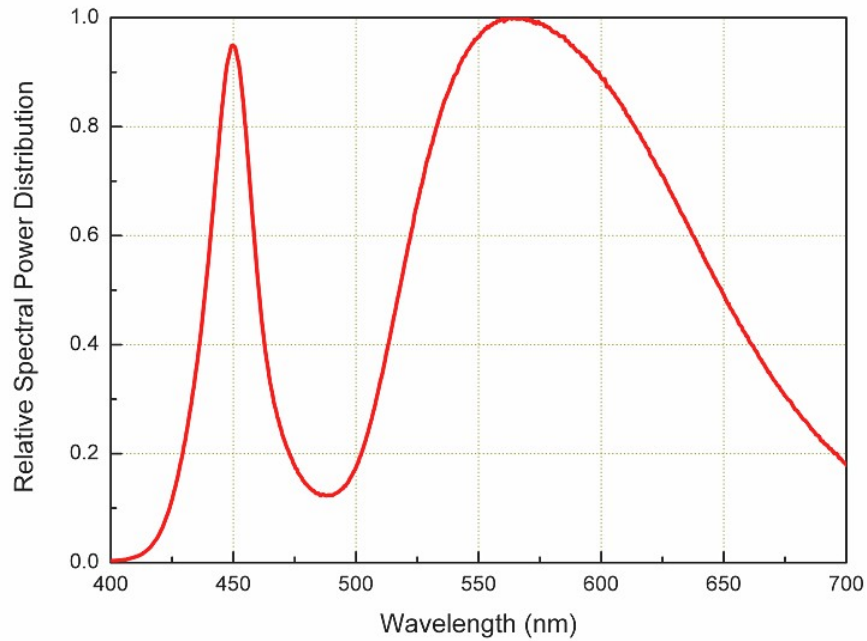
For Red, Amber, Yellow, Green, Blue
@ Thermal Pad Temperature = 25°C



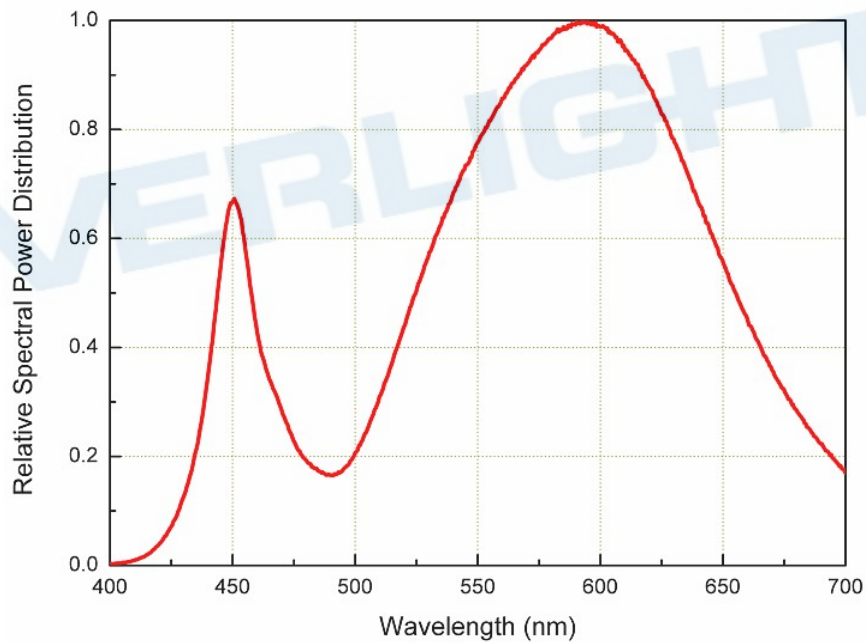
For Cool-White, @ Thermal Pad Temperature = 25°C



For Neutral-White, @ Thermal Pad Temperature = 25°C

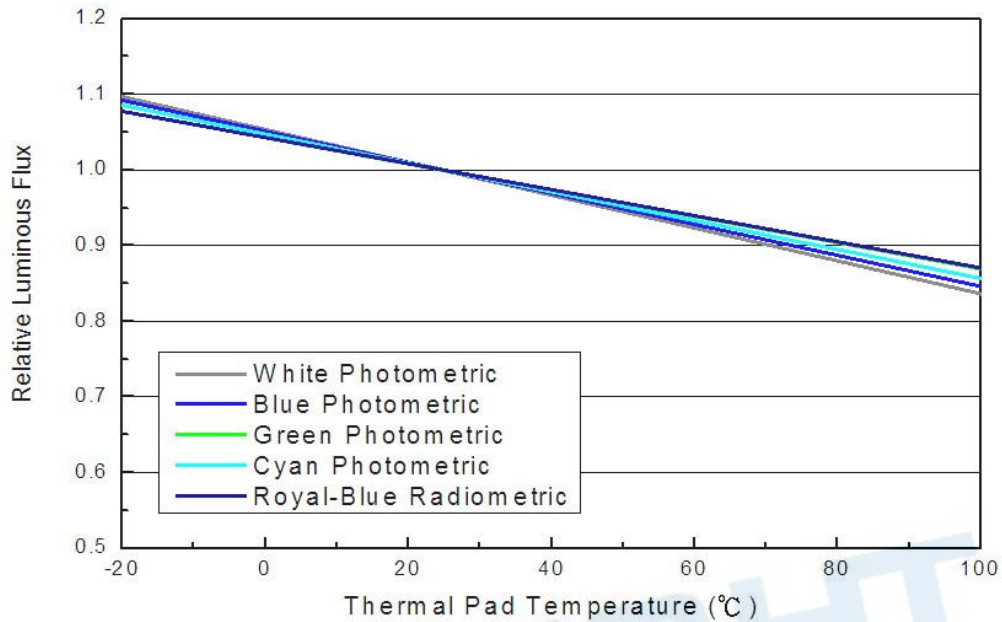


For Warm-White, @ Thermal Pad Temperature = 25°C

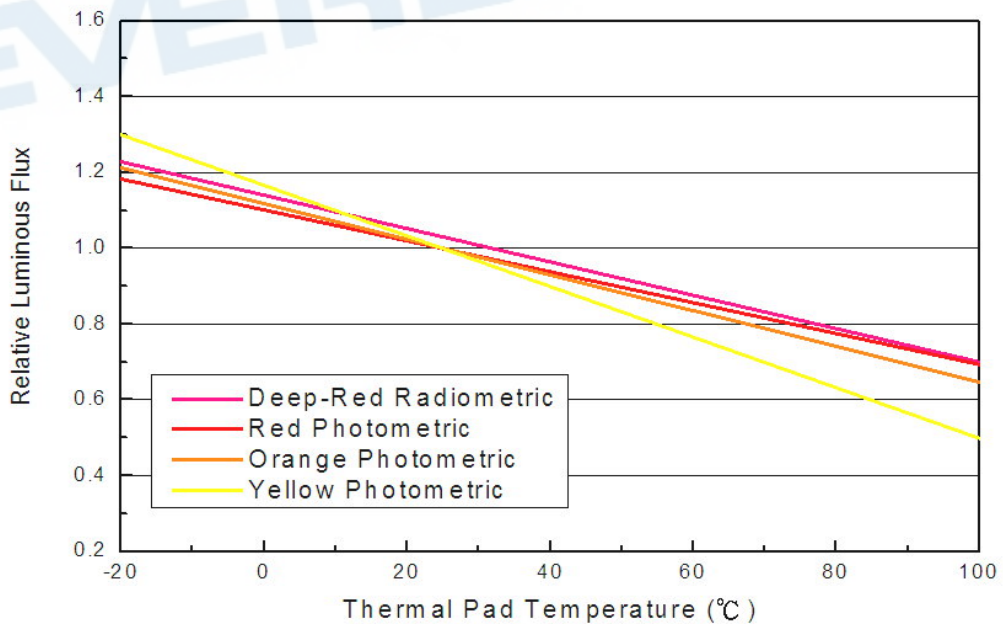


Typical Light Output Characteristic V.S. Thermal Pad Temperature

Cool-White, Neutral-White, Warm-White, Green, Cyan, Blue, Royal-Blue
for 350mA Drive Current

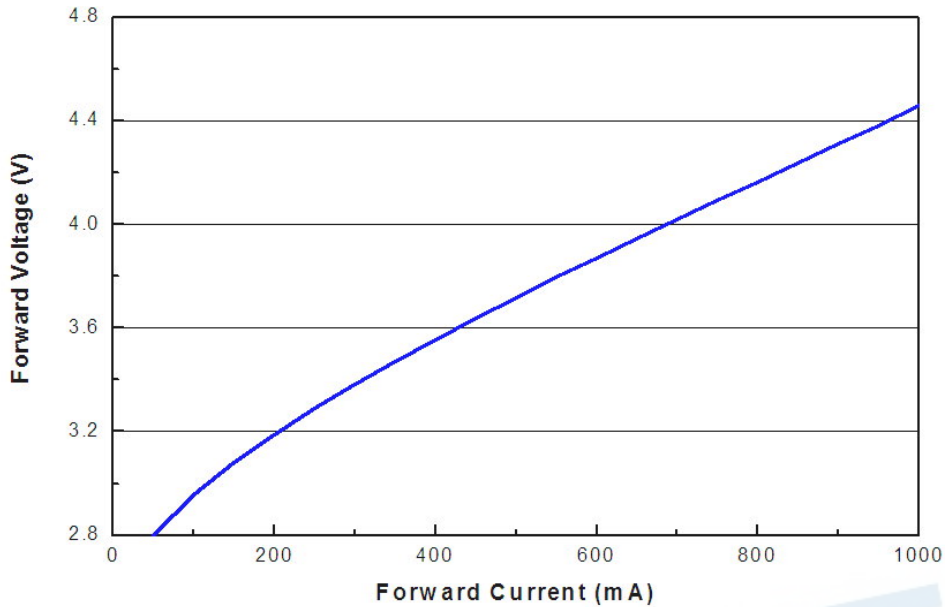


Deep-Red, Red, Orange, Amber for 350mA Drive Current

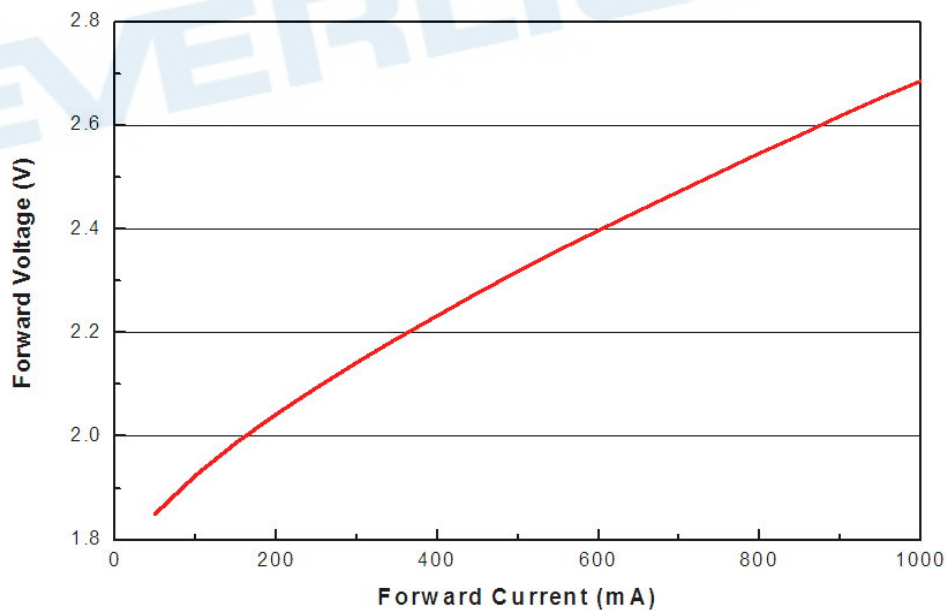


Typical Electrical Characteristics

For Cool-White, Neutral-White, Warm-White, Green, Blue
@ Thermal Pad Temperature = 25°C

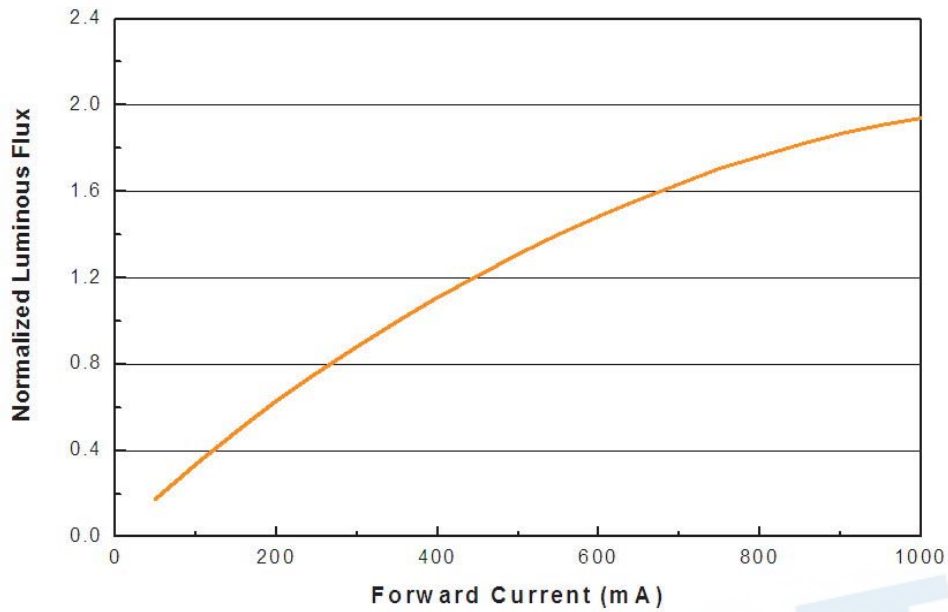


For Red, Orange, Amber,
@ Thermal Pad Temperature = 25°C

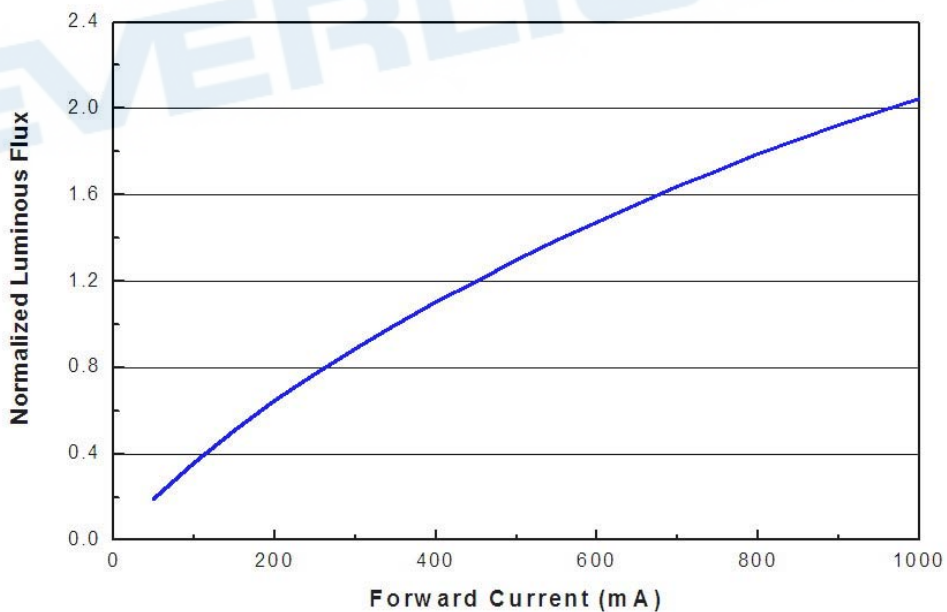


Typical Relative Luminous Flux V.S. Forward Current

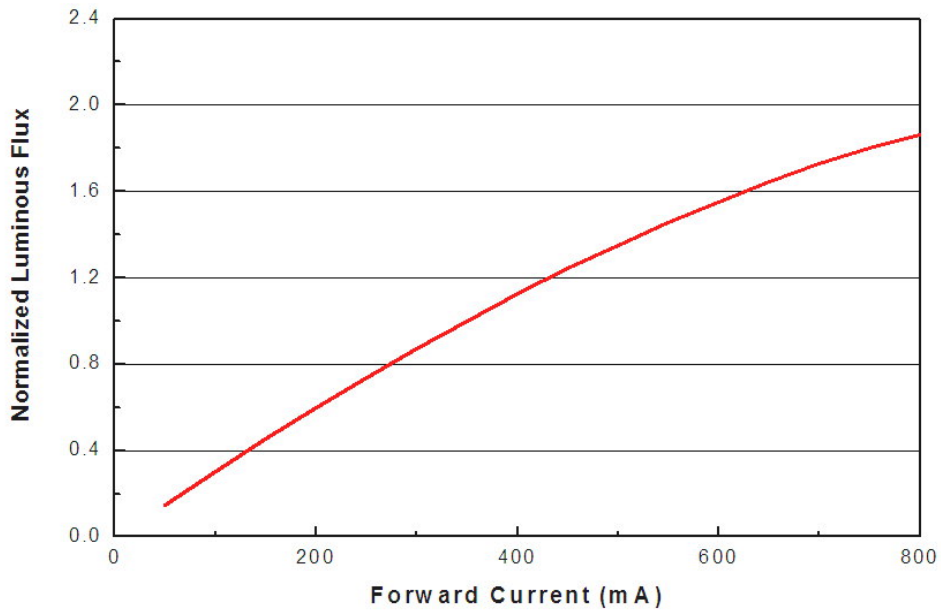
For Cool-White, Neutral-White, Warm-White
@ Thermal Pad Temperature = 25°C



For Green, Blue, @ Thermal Pad Temperature = 25°C



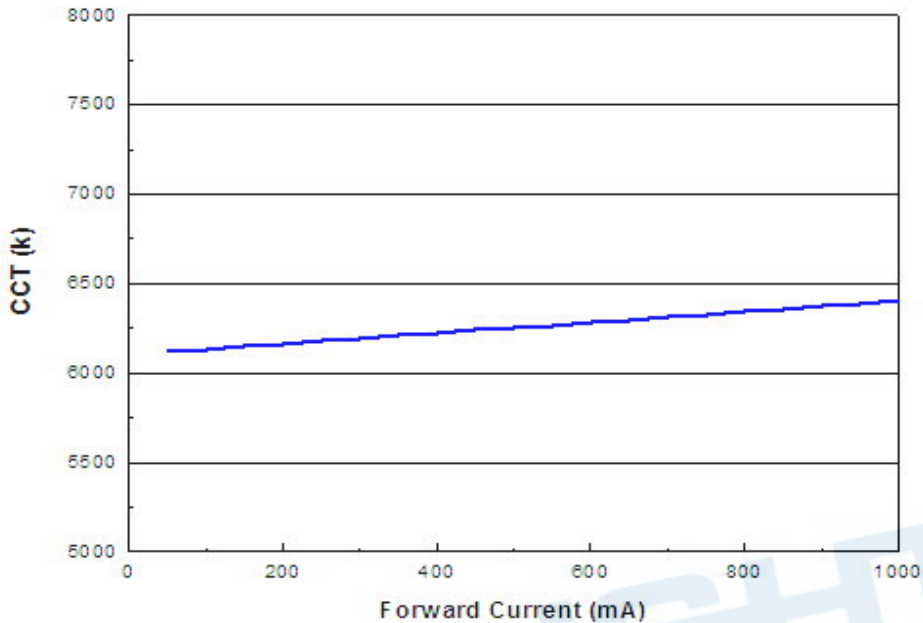
For Red, Orange, Amber,
@ Thermal Pad Temperature = 25°C



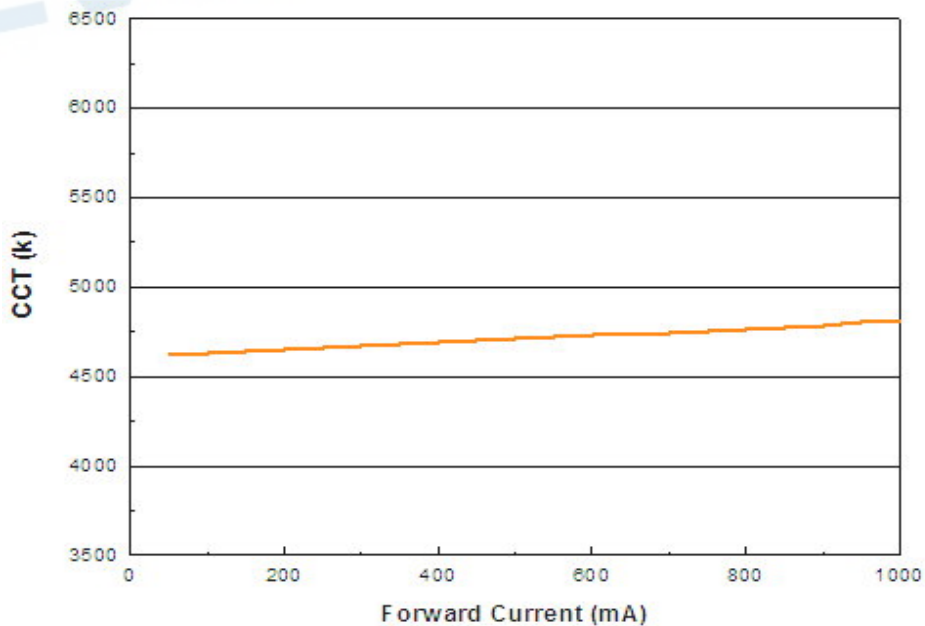
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Typical Wavelength & CCT Shift Characteristics V.S. Forward Current

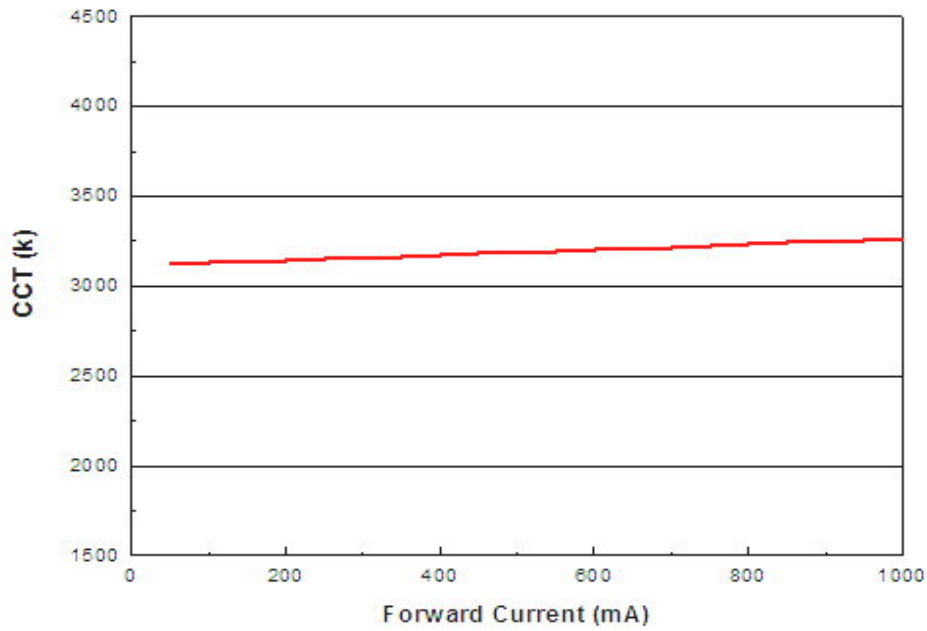
For Cool-White @ Thermal Pad Temperature = 25°C



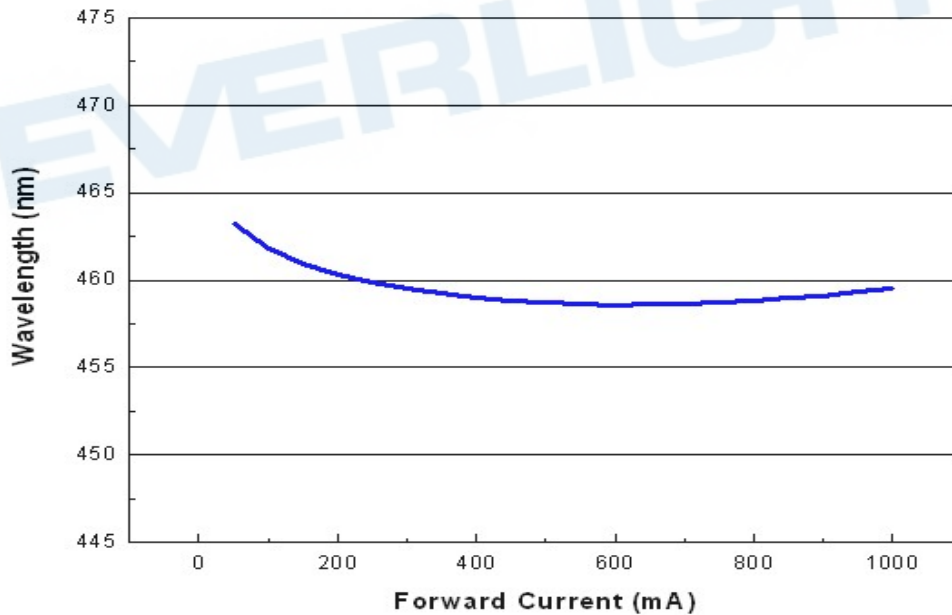
For Neutral-White @ Thermal Pad Temperature = 25°C



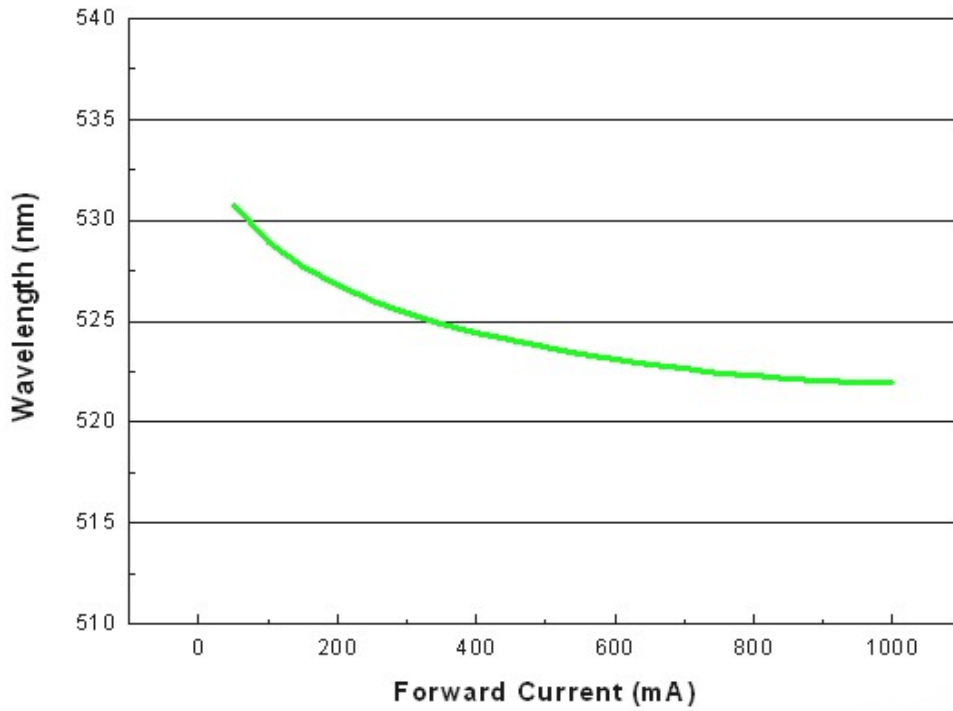
For Warm-White @ Thermal Pad Temperature = 25°C



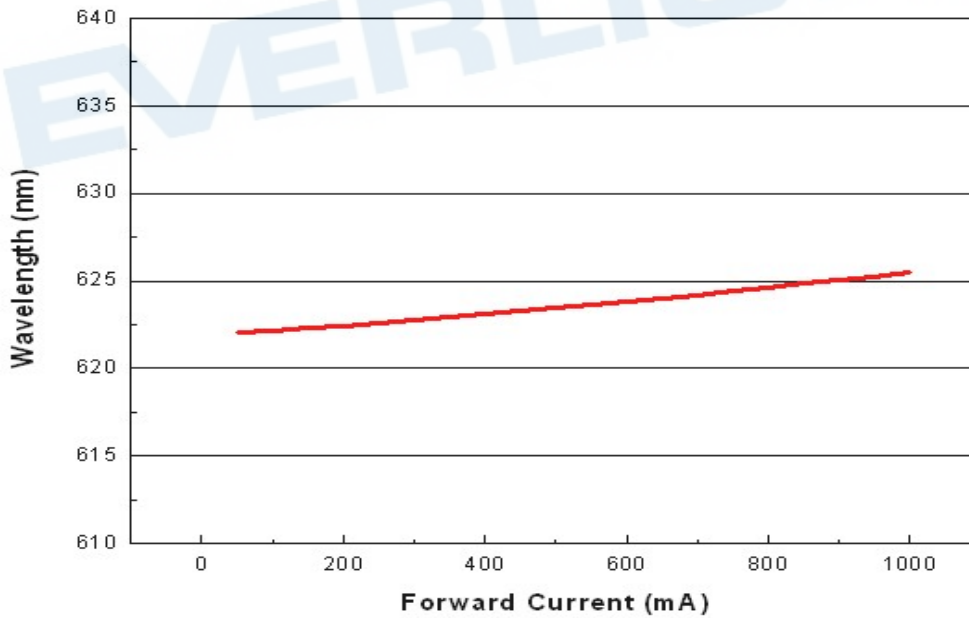
For Blue @ Thermal Pad Temperature = 25°C



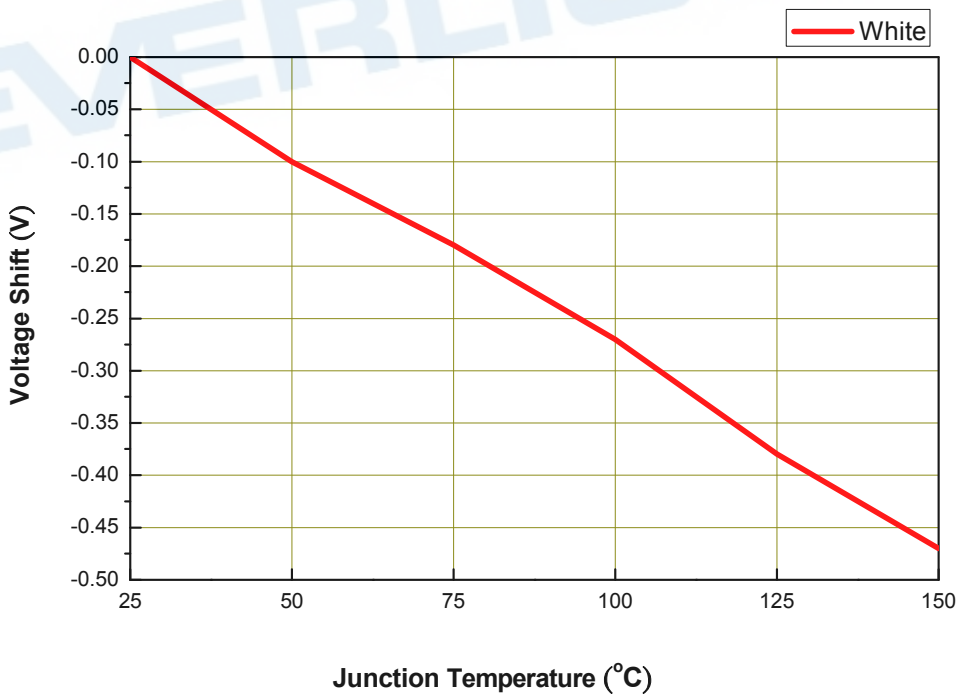
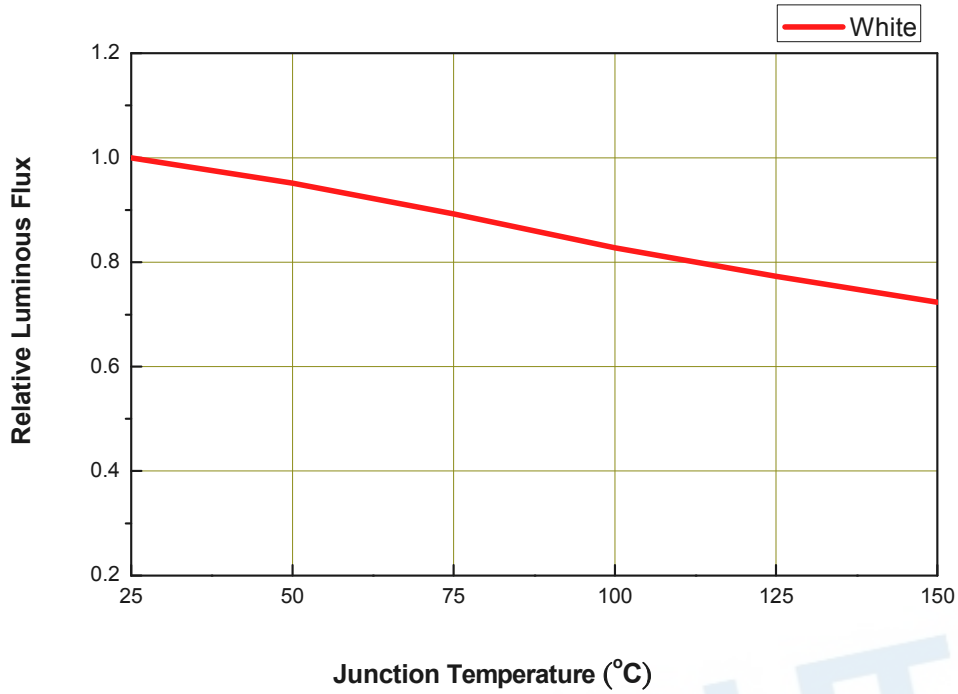
For Green @ Thermal Pad Temperature = 25°C



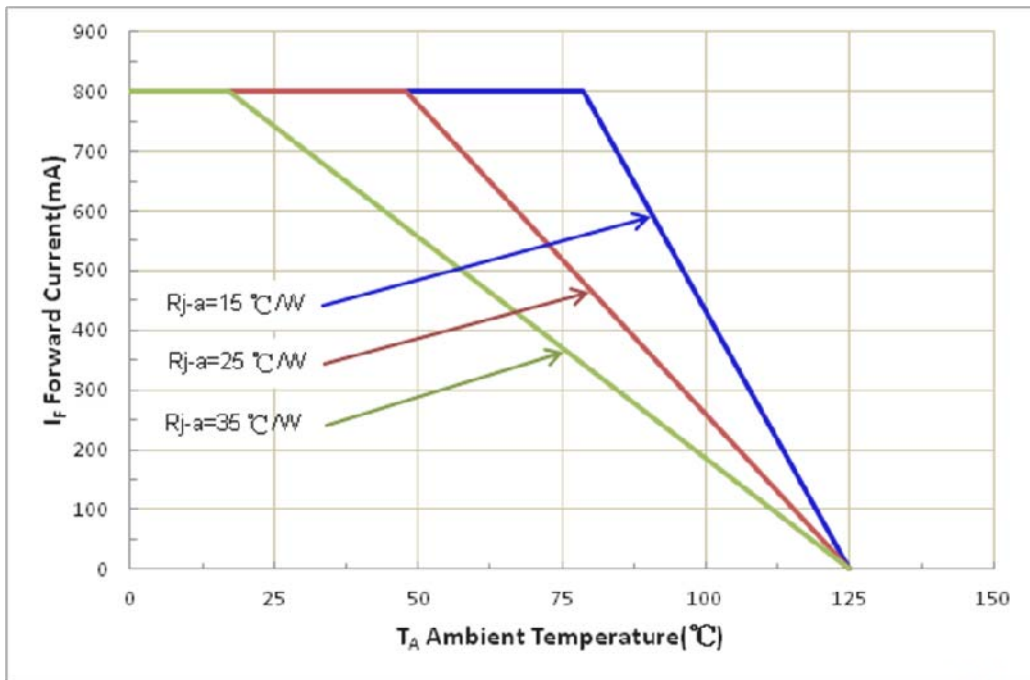
For Red @ Thermal Pad Temperature = 25°C



Relative Flux and Forward Voltage V.S. Junction Temperature (IF = 350 mA)



Current Derating Curves

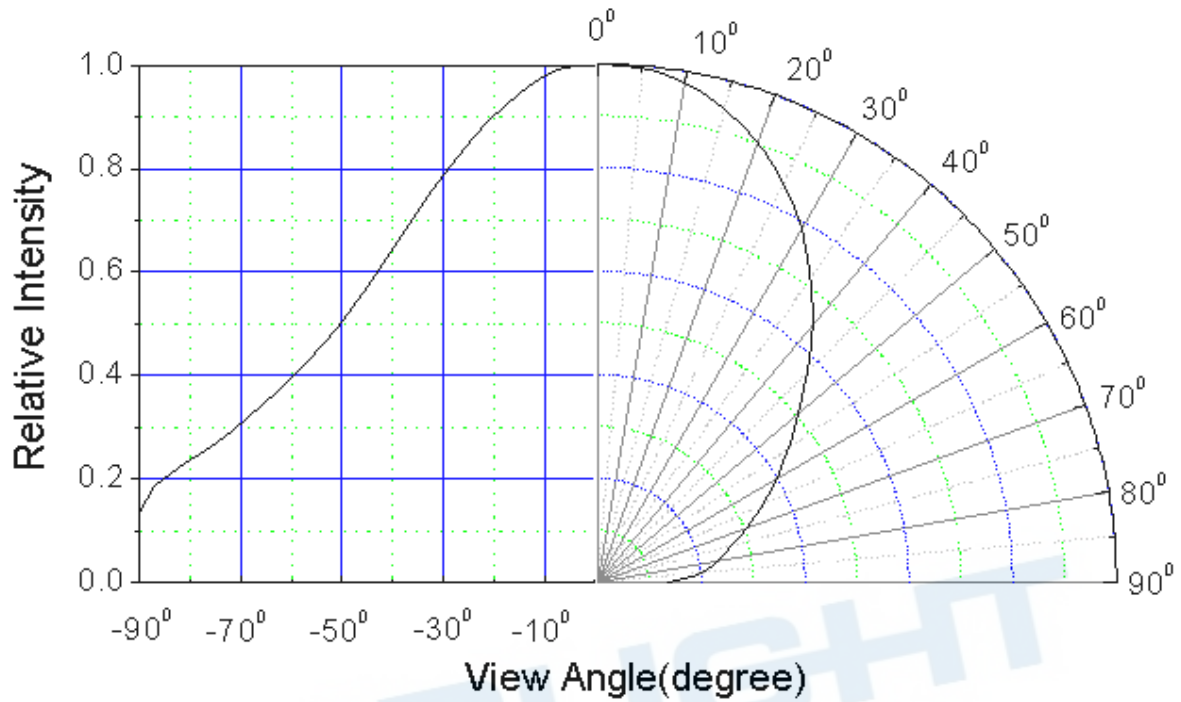


Note:

The current derating curves are depending on the thermal resistance between the junction to the Ambient Temperature.

Typical Radiation Patterns

Typical Diagram Characteristics of Radiation for Cool-White, Neutral-White, Warm-White



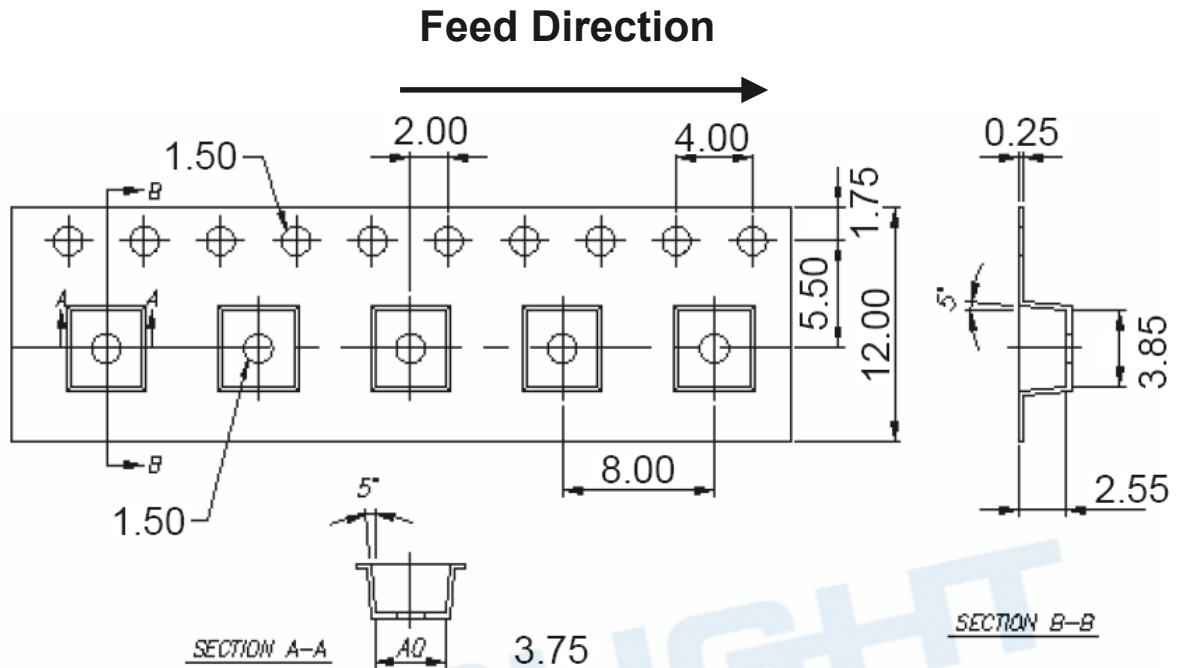
Notes:

1. $2\theta_{1/2}$ is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
2. View angle tolerance is $\pm 5^\circ$.

Emitter Tape Packaging

Carrier Tape Dimensions as the following:

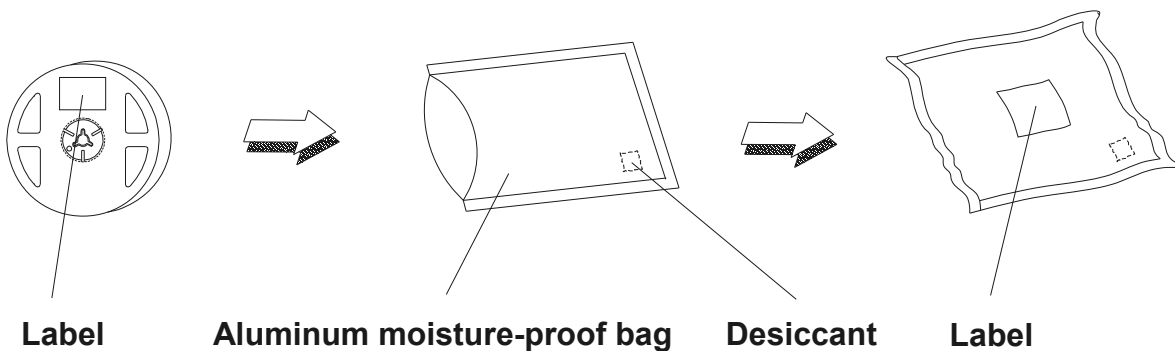
Reel: 400pcs, MOQ \geq 2Kpcs(has to be a multiple of 400pcs)



Notes:

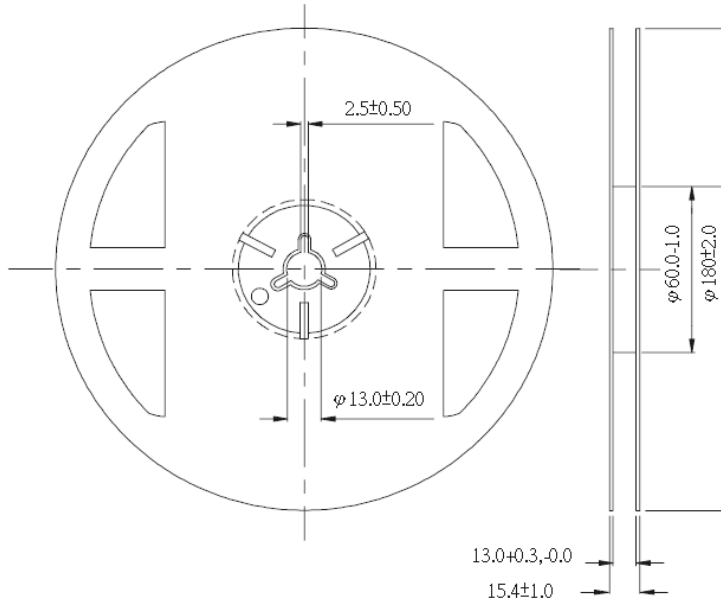
1. Dimensions are in millimeters.
2. Tolerances for fixed dimensions are ± 0.1 mm.

Moisture Resistant Packaging



Emitter Reel Packaging

Reel Dimensions



Notes:

1. Dimensions are in millimeters.
2. Tolerances unless mentioned are ± 0.1 mm.

Product Labeling

Label Explanation

CPN: Customer Specification (when required)

P/N : Everlight Americas Production Number

QTY: Packing Quantity

CAT: Luminous Flux (Brightness) Bin

HUE: Color Bin

REF: Forward Voltage Bin

LOT No: Lot Number

MADE IN TAIWAN: Production Place



Storage Conditions

- Before the package is opened. The LEDs should be stored at 30°C or less and 85%RH or less after being shipped from Everlight and the storage life limits are 1 year. The LEDs can be stored up to 3 years if in a sealed container with a nitrogen atmosphere and moisture absorbent material.
- After opening the package: The LED's floor life is 1 year under 30°C or less and 60%RH or less. The LED should be soldered within 168hrs (7days) after opening the package. If unused LEDs remain, it should be stored in moisture proof packages.
- 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±5°C for 24 hours.

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Revision History

Current version: 2015/06/04

Device No: DHE-0002816

Version. 2

| Page | Subjects (major change in previous version) | Date of change |
|------|---|----------------|
| | | |
| | | |

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