

# Product catalogue

## 2015 Q1-Q2

**BRIGHTTEK**  
BRIGHTTEK (EUROPE) LIMITED



# 3535XP 1-3W

## CERAMIC SMD

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- **GREEN**
- **QUALITY**
- **INNOVATION**



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# APPLICATIONS



**High Bay Light**



**Stage Lighting**



**Street Light**



**Architectural Lighting**



**General Lighting**



**Outdoor Lighting**



**Plant Growing Light**



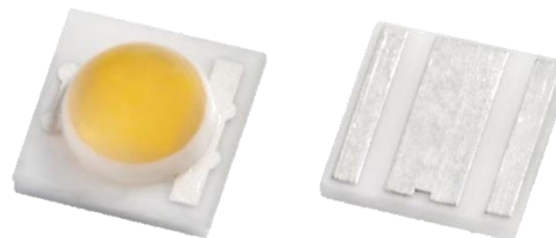
**Automotive Lighting\***

\* under AEC-Q101 testing, available in 2015 Q2

**WHITE**



# 3535 WHITE



| P/N                               | Product Description                                                                                    |
|-----------------------------------|--------------------------------------------------------------------------------------------------------|
| <a href="#"><u>NOW10S07P</u></a>  | 3535 2.0t, Warm White, 1500-1900lm, 1~3W, 350/700/1000mA, 75/131/168lm, 3.2V, 120°, Automotive, CRI 70 |
| <a href="#"><u>NOW10S05</u></a>   | 3535 2.0t, Warm White, 1980-2240K, 1~3W, 350/700/1000mA, 80/140/180lm, 3V, 120°, CRI 70                |
| <a href="#"><u>NOW06S60</u></a>   | 3535 2.0t, Warm White, 2580-3710K, 1~2W, 350mA, 100lm, 3.2V, 120°, CRI 80                              |
| <a href="#"><u>NOW09S09</u></a>   | 3535 2.0t, Warm White, 2725-3045K, 1~3W, 350/700/1000mA, 110/192/247lm, 3V, 120°, CRI 82               |
| <a href="#"><u>NOW09S96ZP</u></a> | 3535 2.0t, Warm White, 2725-3045K, 1~2W, 350/700mA, 78/131lm, 3.2V, 120°, with Zeners, CRI 90          |
| <a href="#"><u>NOW06S59</u></a>   | 3535 2.0t, Natural White, 3710-4745K, 1~2W, 350mA, 120lm, 3.2V, 120°, CRI 80                           |
| <a href="#"><u>NOW09S94ZP</u></a> | 3535 2.0t, Natural White, 3710-4260K, 1~2W, 350/700mA, 90/157lm, 3.2V, 120°, with Zeners, CRI 90       |
| <a href="#"><u>NOW10S02</u></a>   | 3535 2.0t, Natural White, 3710-4260K, 1~3W, 350/700/1000mA, 130/227/292lm, 3V, 120°, CRI 70            |
| <a href="#"><u>NOW10S03</u></a>   | 3535 2.0t, Natural White, 3710-4260K, 1~3W, 350/700/1000mA, 110/192/247lm, 3V, 120°, CRI 82            |
| <a href="#"><u>NOW06S58</u></a>   | 3535 2.0t, Cool White, 4745-7040K, 1~2W, 350mA, 120lm, 3.2V, 120°, CRI 70                              |
| <a href="#"><u>NOW09S92ZP</u></a> | 3535 2.0t, Cool White, 4746-5310K, 1~2W, 350/700mA, 90/157lm, 3.2V, 120°, with Zeners, CRI 90          |
| <a href="#"><u>NOW10S01</u></a>   | 3535 2.0t, Cool White, 4746-5310K, 1~3W, 350/700/1000mA, 130/227/292lm, 3V, 120°, CRI 70               |
| <a href="#"><u>NOW16S69</u></a>   | 3535 2.0t, Cool White, 5310-6020K, 1~3W, 350/700/1000mA, 120/210/270lm, 3.2V, 120°, CRI 82             |
| <a href="#"><u>NOW09S89ZP</u></a> | 3535 2.0t, Cool White, 5710-6530K, 1~2W, 350/700mA, 100/175lm, 3.2V, 120°, with Zeners, CRI 90         |
| <a href="#"><u>NOW09S99</u></a>   | 3535 2.0t, Cool White, 5710-6530K, 1~3W, 350/700/1000mA, 130/227/292lm, 3V, 120°, CRI 70               |
| <a href="#"><u>NOW10S00</u></a>   | 3535 2.0t, Cool White, 5710-6530K, 1~3W, 350/700/1000mA, 120/210/270lm, 3V, 120°, CRI 82               |
| <a href="#"><u>NOW10S06P</u></a>  | 3535 2.0t, Cool White, 5710-8530K, 1~3W, 350/700/1000mA, 130/227/292lm, 3.2V, 120°, Automotive, CRI 70 |



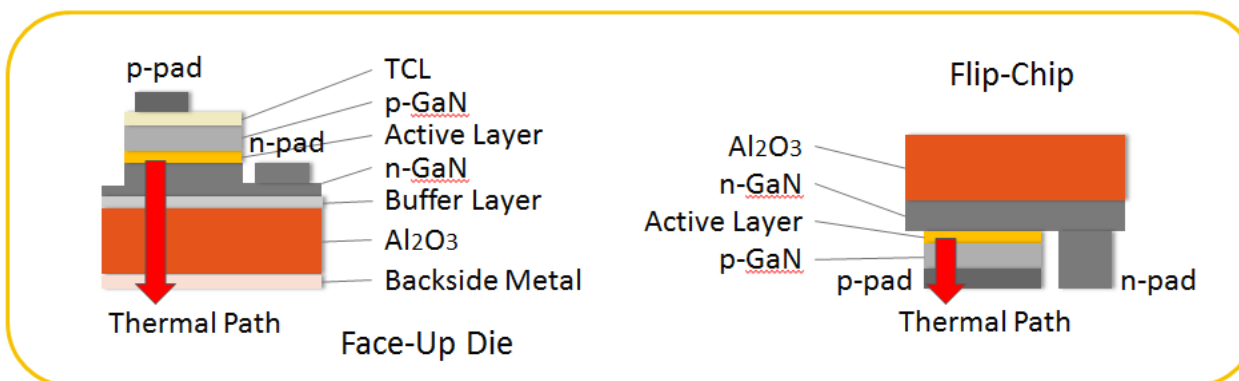
## **FLIP-CHIP SERIES**

| P/N                              | Product Description                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------|
| <a href="#"><u>NOW10S07P</u></a> | 3535 2.0t, Warm White, 1500-1900lm, 1~3W, 350/700/1000mA, 75/131/168lm, 3.2V, 120°, Automotive, CRI 70 |
| <a href="#"><u>NOW10S05</u></a>  | 3535 2.0t, Warm White, 1980-2240K, 1~3W, 350/700/1000mA, 80/140/180lm, 3V, 120°, CRI 70                |
| <a href="#"><u>NOW09S09</u></a>  | 3535 2.0t, Warm White, 2725-3045K, 1~3W, 350/700/1000mA, 110/192/247lm, 3V, 120°, CRI 82               |
| <a href="#"><u>NOW10S02</u></a>  | 3535 2.0t, Natural White, 3710-4260K, 1~3W, 350/700/1000mA, 130/227/292lm, 3V, 120°, CRI 70            |
| <a href="#"><u>NOW10S03</u></a>  | 3535 2.0t, Natural White, 3710-4260K, 1~3W, 350/700/1000mA, 110/192/247lm, 3V, 120°, CRI 82            |
| <a href="#"><u>NOW10S01</u></a>  | 3535 2.0t, Cool White, 4746-5310K, 1~3W, 350/700/1000mA, 130/227/292lm, 3V, 120°, CRI 70               |
| <a href="#"><u>NOW16S69</u></a>  | 3535 2.0t, Cool White, 5310-6020K, 1~3W, 350/700/1000mA, 120/210/270lm, 3.2V, 120°, CRI 82             |
| <a href="#"><u>NOW09S99</u></a>  | 3535 2.0t, Cool White, 5710-6530K, 1~3W, 350/700/1000mA, 130/227/292lm, 3V, 120°, CRI 70               |
| <a href="#"><u>NOW10S00</u></a>  | 3535 2.0t, Cool White, 5710-6530K, 1~3W, 350/700/1000mA, 120/210/270lm, 3V, 120°, CRI 82               |
| <a href="#"><u>NOW10S06P</u></a> | 3535 2.0t, Cool White, 5710-8530K, 1~3W, 350/700/1000mA, 130/227/292lm, 3.2V, 120°, Automotive, CRI 70 |



# FLIP-CHIP SERIES

- Flip-Chip (Wire-Bond Free)



- Higher performance and higher reliability.
- Shorter thermal path. Better thermal resistance.
- Phosphor convert process (phosphor-on-die).
- Higher driving current. Driving current upto 1A.
- No shadow of wire. Higher light output.
- Eutectic die-bonding process applied.

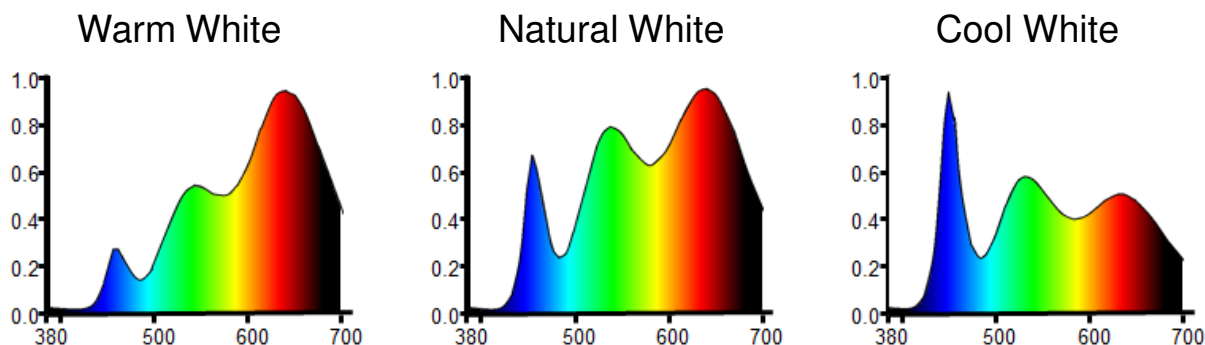






## HIGH CRI SERIES

| P/N                              | Product Description                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------|
| <a href="#"><u>N0W09S96P</u></a> | 3535 2.0t, Warm White, 2725-3045K, 1~2W, 350/700mA, 78/131lm, 3.2V, 120°, with Zeners, CRI 90    |
| <a href="#"><u>N0W09S94P</u></a> | 3535 2.0t, Natural White, 3710-4260K, 1~2W, 350/700mA, 90/157lm, 3.2V, 120°, with Zeners, CRI 90 |
| <a href="#"><u>N0W09S92P</u></a> | 3535 2.0t, Cool White, 4746-5310K, 1~2W, 350/700mA, 90/157lm, 3.2V, 120°, with Zeners, CRI 90    |
| <a href="#"><u>N0W09S89P</u></a> | 3535 2.0t, Cool White, 5710-6530K, 1~2W, 350/700mA, 100/175lm, 3.2V, 120°, with Zeners, CRI 90   |



CRI=90





# AUTOMOTIVE\*

## Features:

- External / Internal Automotive Application
- NiPdAu Lead Frame
- Flip-Chip (Wire-Bond Free)
- Application:
  - ☐ Daytime Running Light (DRL)
  - ☐ Head Lamp
  - ☐ Door Lamp
  - ☐ Reading Lamp



\* under AEC-Q101 testing, available in 2015 Q2

P/N

Product Description

|                                  |                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------|
| <a href="#"><u>NOW10S07P</u></a> | 3535 2.0t, Warm White, 1500-1900lm, 1~3W, 350/700/1000mA, 75/131/168lm, 3.2V, 120°, Automotive, CRI 70 |
| <a href="#"><u>NOW10S06P</u></a> | 3535 2.0t, Cool White, 5710-8530K, 1~3W, 350/700/1000mA, 130/227/292lm, 3.2V, 120°, Automotive, CRI 70 |

# COLOUR



# 3535 COLOUR

| P/N                              | Product Description                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------|
| <a href="#"><u>N0B09S84Z</u></a> | 3535 2.0t, Blue, 450-460nm, 1~2W, 350/700mA, 16/26lm, 3.4V, 120°, with Zeners, for Plant Growing |
| <a href="#"><u>N0B09S80Z</u></a> | 3535 2.0t, Blue, 460-470nm, 1~2W, 350/700mA, 28/46lm, 3.4V, 120°, with Zeners                    |
| <a href="#"><u>N0B16S70Z</u></a> | 3535 2.0t, Blue, 470-480nm, 1~2W, 350/700mA, 35/56lm, 3.4V, 120°, with Zeners                    |
| <a href="#"><u>N0G09S79Z</u></a> | 3535 2.0t, Green, 520-530nm, 1~2W, 350/700mA, 100/165lm, 3.4V, 120°, with Zeners                 |
| <a href="#"><u>N0Y09S81</u></a>  | 3535 2.0t, Yellow, 585-595nm, 1~2W, 350/700mA, 55/93lm, 2.4V, 120°                               |
| <a href="#"><u>N0Y10S12P</u></a> | 3535 2.0t, Yellow, 585-595nm, 1~2W, 350/700mA, 55/93lm, 2.4V, 120°, Automotive                   |
| <a href="#"><u>N0R09S78</u></a>  | 3535 2.0t, Red, 620-630nm, 1~2W, 350/700mA, 50/85lm, 2.4V, 120°                                  |
| <a href="#"><u>N0R16S77P</u></a> | 3535 2.0t, Red, 620-630nm, 1~2W, 350/700mA, 55/93lm, 2.4V, 120°, Automotive                      |
| <a href="#"><u>N0R16S78P</u></a> | 3535 2.0t, Red, 620-630nm, 1~2W, 350/700mA, 55/93lm, 2.4V, 60°, Automotive                       |
| <a href="#"><u>N0R09S83</u></a>  | 3535 2.0t, Red, 650-670nm, 1~2W, 350/700mA, 18/30lm, 2.4V, 120°, for Plant Growing               |

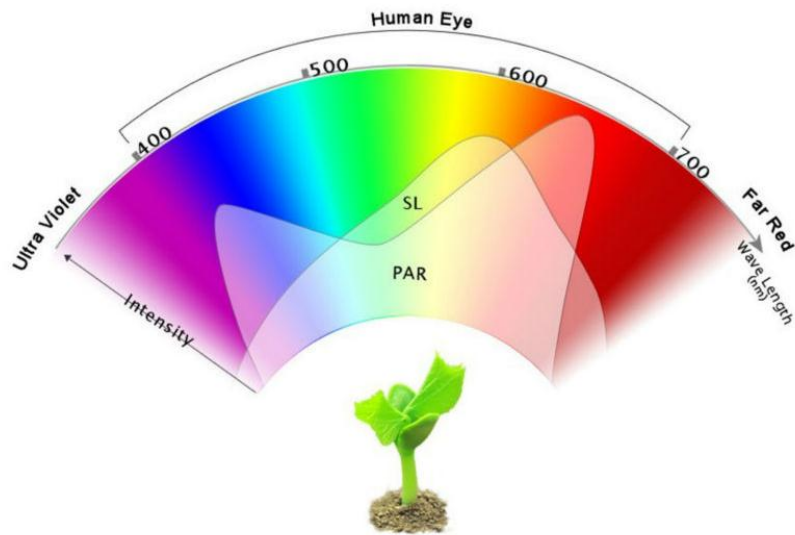




# PLANT GROWING

P/N Product Description

|                                  |                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------|
| <a href="#"><u>N0B09S84Z</u></a> | 3535 2.0t, Blue, 450-460nm, 1~2W, 350/700mA, 16/26lm, 3.4V, 120°, with Zeners, for Plant Growing |
| <a href="#"><u>N0R09S83</u></a>  | 3535 2.0t, Red, 650-670nm, 1~2W, 350/700mA, 18/30lm, 2.4V, 120°, for Plant Growing               |



SL: Solar Light  
PAR: Photosynthetically Active Radiation





# AUTOMOTIVE\*

## Features:

- External / Internal Automotive Application
- NiPdAu Lead Frame
- Application:
  - ☐ Stop Light
  - ☐ Turning Light
  - ☐ Turning Light on Mirror



\* under AEC-Q101 testing, available in 2015 Q2

| P/N                       | Product Description                                                            |
|---------------------------|--------------------------------------------------------------------------------|
| <a href="#">NOY10S12P</a> | 3535 2.0t, Yellow, 585-595nm, 1~2W, 350/700mA, 55/93lm, 2.4V, 120°, Automotive |
| <a href="#">NOR16S77P</a> | 3535 2.0t, Red, 620-630nm, 1~2W, 350/700mA, 55/93lm, 2.4V, 120°, Automotive    |
| <a href="#">NOR16S78P</a> | 3535 2.0t, Red, 620-630nm, 1~2W, 350/700mA, 55/93lm, 2.4V, 60°, Automotive     |

# **INFRARED (IR)**



# 3535 INFRARED (IR)

| P/N                       | Product Description                                                                    | Available with 60°, 120° and Flat lens |
|---------------------------|----------------------------------------------------------------------------------------|----------------------------------------|
| <a href="#">NOF10S09</a>  | 3535 2.0t, Infrared (IR), 840-870nm, 1~4W, 350/1400mA, 275/832mW, 1.6V, 60°            |                                        |
| <a href="#">NOF10S11</a>  | 3535 2.0t, Infrared (IR), 840-870nm, 1~4W, 350/1400mA, 275/832mW, 1.6V, 120°           |                                        |
| <a href="#">NOF16S71</a>  | 3535 2.0t, Infrared (IR), 840-870nm, 1~3W, 350/1000mA, 250/650mW, 1.6V, 120°           |                                        |
| <a href="#">NOF16S72</a>  | 3535 2.0t, Infrared (IR), 840-870nm, 1~3W, 350/1000mA, 250/650mW, 1.6V, 60°            |                                        |
| <a href="#">NOF16S73</a>  | 3535 2.0t, Infrared (IR), 840-870nm, 1~2W, 350/600mA, 225/382mW, 1.6V, 120°            |                                        |
| <a href="#">NOF16S74</a>  | 3535 2.0t, Infrared (IR), 840-870nm, 1~2W, 350/600mA, 225/382mW, 1.6V, 60°             |                                        |
| <a href="#">NOF16S32P</a> | 3535 Flat 1.0t , Infrared (IR), 840-870nm, 1~3W, 350/1000mA, 240/650mW, 1.6/2.2V, 120° |                                        |
| <a href="#">NOF16S33P</a> | 3535 Flat 1.0t , Infrared (IR), 930-950nm, 1~3W, 350/500mA, 240/410mW, 1.6/1.8V, 120°  |                                        |

## • Application:

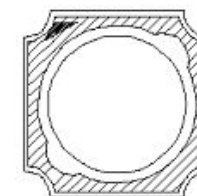
- ☐ Security Device
- ☐ Surveillance Camera
- ☐ Plant Growing Light
- ☐ De-Icing for Traffic Signs
- ☐ Automotive:  
Event Data Recorder\*



60°



120°



Flat Lens  
for flexible 2<sup>nd</sup>  
optics design

\* under AEC-Q101 testing, available in 2015 Q2



# ULTRAVIOLET (UV)

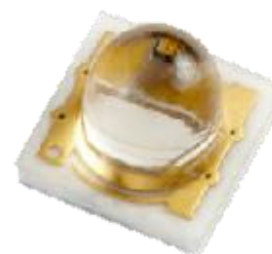


# 3535 ULTRAVIOLET (UV)

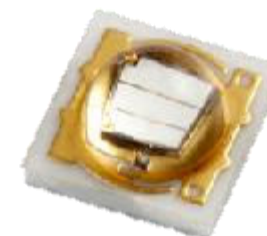
| P/N                       | Product Description                                                                          | Available with 60° and 120° lens |
|---------------------------|----------------------------------------------------------------------------------------------|----------------------------------|
| <a href="#">N0Q10S93Z</a> | 3535 2.0t, Ultraviolet (UV), 390-410nm, 1~2W, 500/700mA, 740/984mW, 3.72V, 120°, with Zeners |                                  |
| <a href="#">N0Q10S94Z</a> | 3535 2.0t, Ultraviolet (UV), 390-410nm, 1~2W, 500/700mA, 740/984mW, 3.72V, 60°, with Zeners  |                                  |
| <a href="#">N0Q10S95Z</a> | 3535 2.0t, Ultraviolet (UV), 380-390nm, 1~2W, 500/700mA, 740/984mW, 3.72V, 120°, with Zeners |                                  |
| <a href="#">N0Q10S96Z</a> | 3535 2.0t, Ultraviolet (UV), 380-390nm, 1~2W, 500/700mA, 740/984mW, 3.72V, 60°, with Zeners  |                                  |
| <a href="#">N0Q16S79Z</a> | 3535 2.0t, Ultraviolet (UV), 410-430nm, 1~2W, 500/700mA, 740/984mW, 3.72V, 120°, with Zeners |                                  |
| <a href="#">N0Q16S80Z</a> | 3535 2.0t, Ultraviolet (UV), 410-430nm, 1~2W, 500/700mA, 740/984mW, 3.72V, 60°, with Zeners  |                                  |

- **Application:**

- ☐ Industrial Curing
- ☐ Air Purifier
- ☐ Poster Printing Curing
- ☐ Counterfeit Money Detector
- ☐ Blood Detector
- ☐ Nail Curing
- ☐ Teeth Curing



60°



120°

# **IC DRIVER**

# IC DRIVER



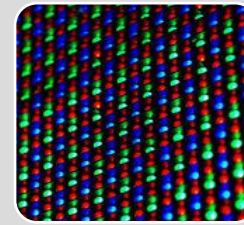
Lighting



Backlighting



High Power



RGB Display



VMS

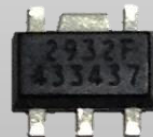
SCT2001  
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SCT2008  
SCT2016  
SCT2301  
SCT2508  
SCT2514  
SCT2518  
SCT2932

SCT2001  
SCT2004  
SCT2008  
SCT2016  
SCT2508  
SCT2514  
SCT2518

SCT2301



SCT2932



SCT2007  
SCT2010  
SCT2024  
SCT2026  
SCT2027  
SCT2110  
SCT2167  
SCT2168  
SCT2180

SCT2024  
SCT2026  
SCT2027  
SCT2110  
SCT2167  
SCT2168

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