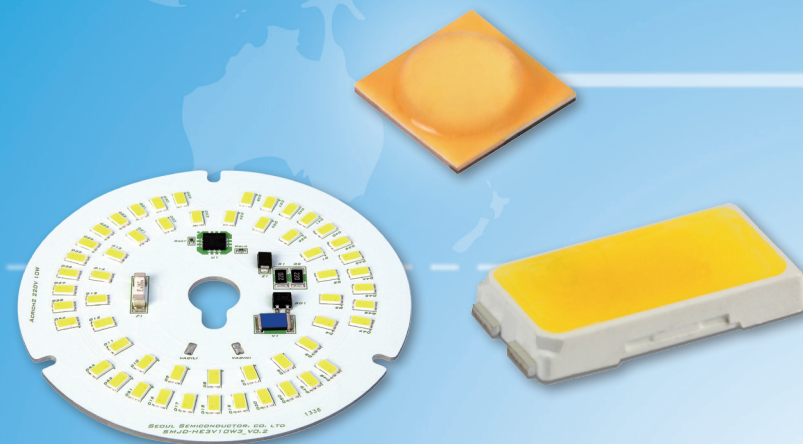




SEOUL SEMICONDUCTOR

Product Selector Guide

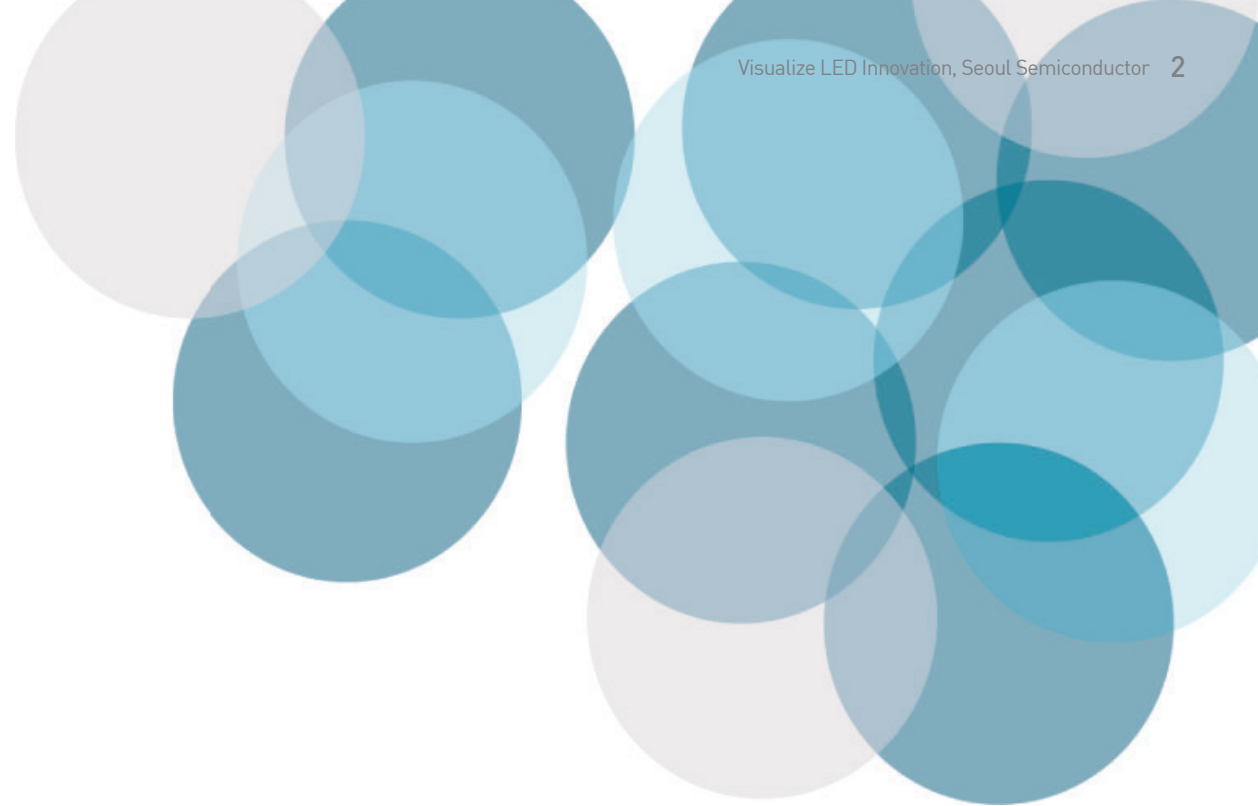
Summer 2014



SEOUL SEMICONDUCTOR

seoulsemicon.com

SEOUL SEMICONDUCTOR NORTH AMERICA



Quick Guide to our Product Portfolio

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About Us

Seoul Semiconductor (www.SeoulSemicon.com) manufactures and packages a wide selection of light emitting diodes (LEDs) for the automotive, general illumination/lighting, Home appliance, signage and back lighting markets. The company is the world's fifth largest LED supplier, holding more than 10,000 patents globally, while offering a wide range of LED technology and production capacity in areas such as "nPola", "Acrich", and "Acrich MJT - Multi-Junction Technology" a proprietary family of high-voltage LEDs.

The company's broad product portfolio includes a wide array of package and device choices such as Acrich and Acirch2, high-brightness LEDs, mid-power LEDs, side-view LEDs, and through-hole type LEDs as well as custom modules, displays, and sensors.

Acrich3

Acrich3, Simplify your Smart Lighting System

Seoul Semiconductor proudly presents Acrich3 with advanced dimming and connections for your smart-lighting dreams.

With the ability to directly power IR sensors, Zigbee, and Bluetooth controllers, the new advanced Acrich3 IC enables easy integration for your Smart-Lighting electronics. Acrich3 IC also incorporates an analog input for perfectly-linear dimming based on your smart-lighting's 0-10V command.

In addition, Acrich3 improves TRIAC Dimming compatibility. Acrich3's ability to precisely control the dimming range with the turn of a knob or a slide of the switch ensures smooth light control. And as always, Acrich3 continues to lead the world in low-distortion power by having one of the lowest THDs and one of the highest power factors.

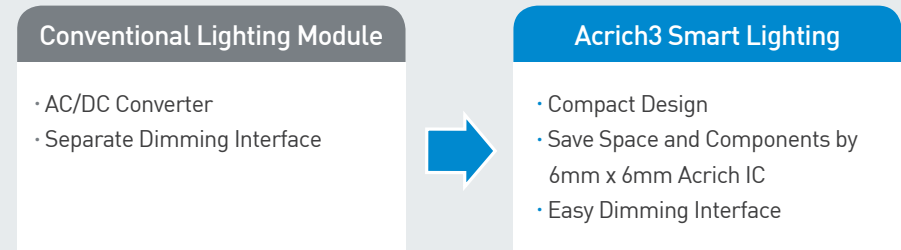
- Remarkably Improved TRIAC Dimming Compatibility up to 60%

- Easy to build Smart Lighting interface

- Wireless Control (Zigbee, WIFI and Bluetooth)
- Smart Sensing (IR, Motion Sensors)
- Analog Dimming
- Step Dimming
- CCT Control

- Cost Efficient Dimming System than Conventional LED system

- Acrich3 enables Simple and Compact Smart Lighting Module



- Uniform Linear Analog Dimming

- Analog Dimming is more important for Commercial & Industrial Lighting
- Acrich3 performs Uniform LINEAR Analog Dimming

- More Energy Saving with Smart Lighting by Sensors

- Energy Saving with Motion Sensor

Light on 100% in the presence of people and dims to 10-50% in the absence.

- Acrich3 power Sensors directly from IC

Sensor modules can be can save component and space. LEDs, IC and IR Sensors etc. are all on 1 Board



IR sensor Dimming Module
All Device on 1 Board

- Acrich3 enables various Wireless Controls

- Zigbee, WIFI, Bluetooth



Acrich2

Get Plugged in with Acrich2

“The latest Acrich2 17W module saves energy up to 50 percent and improves compatibility with phase cut dimmer and analog DC dimmer”



Features & Solutions

Acrich2 is a revolutionary family of LED modules that make it easy to convert traditional light sources to solid-state lighting(LEDs). These modules do not require the drivers, bridges or ballasts associated with traditional light sources.

Acrich2 modules are the perfect replacement light sources for flush-mount fixtures, down lights and sconces.

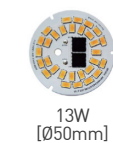
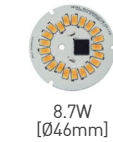
Applications

- Downlight
- Flush Mount
- Wall Sconce
- PAR
- MR16
- A19 Bulb
- GU10

| Wide Voltage Range | Number of IC | x 1 | | x 2 | ... | x n | Dimming |
|--------------------|--------------|------------------------------------|----------------|-------------------------------|-----|--|--------------------------------------|
| | | A wide range of power distribution | 4W | 8W | 12W | 16W | |
| | Application | MR (MR16) | Bulb(A19) Tube | Down Light Spot Lamp PAR Lamp | ... | High Watt Application (Street Lighting, HighBay) | Analog DC 0~10v Phase Cut Dimming |

Acrich2

Electro Optical Characteristics



| Series | Color | Part No. | V _i [V] | Power [W] | CCT[K] | Binning | Flux Bin | Flux[lm] Min. | Flux[lm] Typ. | CRI |
|-------------|-------|----------------|--------------------|-----------|-------------|---------------|------------|---------------|---------------|------------------|
| 4.3W | CW | SMJE-2V04W1P3 | 120 | 4.3W | 4,700~6,000 | McAdam 3 Step | 4a 4b | 290 380 | 330 400 | Min.80 |
| | NW | | | | | | | | | |
| | WW | | | | | | | | | |
| 8.7W | CW | SMJE-2V08W1P3 | 120 | 8.7W | 4,700~6,000 | McAdam 3 Step | 8a 8b | 590 740 | 650 800 | Min.80 |
| | NW | | | | | | | | | |
| | WW | | | | | | | | | |
| 8.7W_Candle | CW | SMJC-2V08W2P4* | 120 | 8.7W | 4,700~6,000 | - | ALL | 580 | 670 | Min.80 |
| | WW | | | | | | | | | |
| 8.7W_Eco | CW | SMJE-2V08W2P4 | 120 | 8.7W | 4,700~6,000 | - | ALL | 540 | 670 | Min.80 |
| | WW | | | | | | | | | |
| 10W | CW | SMJD-HE2V10W3 | 120 | 10W | 4,700~5,300 | - | ALL | 1250 1110 | 1350 1200 | Min.80 Min.70 |
| | WW | | | | | | | | | |
| 13W | CW | SMJE-2V12W1P3 | 120 | 13W | 4,700~6,000 | McAdam 3 Step | 13a 13b | 880 1140 | 1000 1210 | Min.80 |
| | NW | | | | | | | | | |
| | WW | | | | | | | | | |
| 12.7W_Eco | CW | SMJE-2V12W2P4 | 120 | 12.7W | 4,700~6,000 | - | ALL | 850 | 930 | Min.80 |
| | WW | | | | | | | | | |
| 17W | CW | SMJD-2V16W1P3 | 120 | 17W | 4,700~6,000 | McAdam 3 Step | 17a 17b | 1140 1480 | 1300 1590 | Min.80 |
| | NW | | | | | | | | | |
| | WW | | | | | | | | | |
| 17W | CW | SMJD-2V16W2P3 | 120 | 17W | 4,700~6,000 | McAdam 3 Step | 17a 17b | 1140 1480 | 1300 1590 | Min.80 |
| | NW | | | | | | | | | |
| | WW | | | | | | | | | |

* Under Development

Electro Optical Characteristics

| Series | Color | Part No. | V _i [V] | Power [W] | CCT[K] | Binning | Flux Bin | Flux[lm] Min. | Flux[lm] Typ. | CRI | |
|-------------|-------|----------------|--------------------|-----------|-------------|---------------|------------|---------------|---------------|------------------|-------------|
| 4.3W | CW | SMJE-3V04W1P3 | 220 | 4.3W | 4,700~6,000 | McAdam 3 Step | 4a 4b | 290 380 | 330 400 | Min.80 | |
| | NW | | | | | | | | | | 3,700~4,200 |
| | WW | | | | | | | | | | 2,600~3,200 |
| 8.7W | CW | SMJE-3V08W1P3 | 220 | 8.7W | 4,700~6,000 | McAdam 3 Step | 8a 8b | 590 740 | 650 800 | Min.80 | |
| | NW | | | | | | | | | | 3,700~4,200 |
| | WW | | | | | | | | | | 2,600~3,200 |
| 8.7W_Candle | CW | SMJC-3V08W2P4* | 220 | 8.7W | 4,700~6,000 | - | ALL | 580 | 670 | Min.80 | |
| | WW | | | | | | | | | | 2,600~3,200 |
| 8.7W_Eco | CW | SMJE-3V08W2P4 | 220 | 8.7W | 4,700~6,000 | - | ALL | 540 | 670 | Min.80 | |
| | WW | | | | | | | | | | 2,600~3,200 |
| 10W | CW | SMJD-HE2V10W3 | 220 | 10W | 4,700~5,300 | - | ALL | 1250 1110 | 1350 1200 | Min.80 Min.70 | |
| | WW | | | | | | | | | | 2,600~3,200 |
| 13W | CW | SMJE-3V12W1P3 | 220 | 13W | 4,700~6,000 | McAdam 3 Step | 13a 13b | 880 1140 | 1000 1210 | Min.80 | |
| | NW | | | | | | | | | | 3,700~4,200 |
| | WW | | | | | | | | | | 2,600~3,200 |
| 12.7W_Eco | CW | SMJE-3V12W2P4 | 220 | 12.7W | 4,700~6,000 | - | ALL | 850 | 930 | Min.80 | |
| | WW | | | | | | | | | | 2,600~3,200 |
| 17W | CW | SMJD-3V16W1P3 | 220 | 17W | 4,700~6,000 | McAdam 3 Step | 17a 17b | 1140 1480 | 1300 1590 | Min.80 | |
| | NW | | | | | | | | | | 3,700~4,200 |
| | WW | | | | | | | | | | 2,600~3,200 |
| 17W | CW | SMJD-3V16W2P3 | 220 | 17W | 4,700~6,000 | McAdam 3 Step | 17a 17b | 1140 1480 | 1300 1590 | Min.80 | |
| | NW | | | | | | | | | | 3,700~4,200 |
| | WW | | | | | | | | | | 2,600~3,200 |

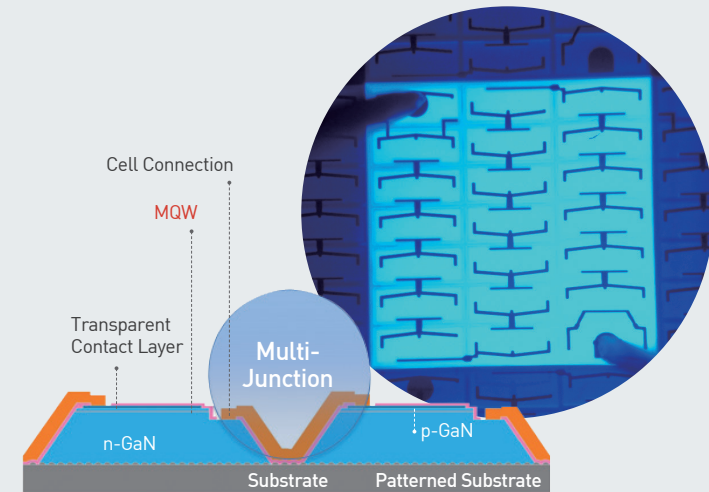
* Under Development



Acrich MJT

Multi-Junction Technology

MJT stands for Multi Junction Technology, eliminating the usage of multiple wire bonds between several dies. Since it uses only one chip, it vastly improves the reliability of the LED package, reducing the potential number of failure modes associated with wire bonds within the LED package. It can be driven at higher voltage than Conventional DC LEDs, providing designers high voltage options without large form factors of multi-die chip-on-boards.



Why Acrich MJT?

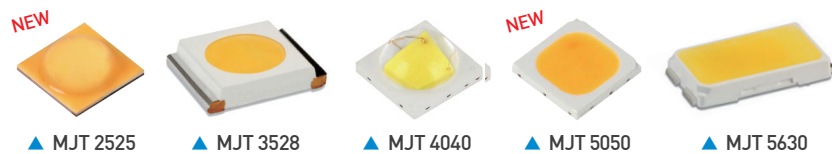
| MJT Feature | Benefit |
|---------------------------|--|
| High Reliability | Eliminates multiple wire bonds between several die's to create the high voltage architecture improving reliability of the LED package |
| High Efficiency; Low Cost | Low current high voltage architecture enables simpler, smaller, cheaper and more efficient driver topologies in luminaire designs. |
| Better Thermal Management | Improved efficiency of the driver electronics results in less heat generated and fewer electronic components used in the driver design allowing more space for thermal management within the luminaire |
| Scalability | Various package sizes possible with different lumen outputs, forward voltages and power consumptions |

Advantages of Multi-Junction Technology

- High voltage, low current operation
 - Efficient, cost-effective drivers
 - Accelerates time to market

FEATURES

 - Ideal for high voltage DC and AC designs
 - Wide range of voltages 13C - 69V
 - High luminous efficacy up to 141 lm/W



Applications

- Troffer
- Flood Light
- Street Light
- Tunnel
- Wall Washer

Electro Optical Characteristics

| Series | Color | Part No. | Size [mm] | V _F [V] | Flux [lm] | I _F [mA] | T _{opt} [°C] | CCT[K] | 2θ 1/2 [°] | CRI |
|---------------------|-------|-----------|--------------|--------------------|-----------|---------------------|-----------------------|-------------|------------|--------|
| NEW Acrich MJT 2525 | WW | SAWWFS72A | 2.5x2.5x1.2 | 23 | 95.0 | 40 | -30~+100 | 2,600~3,700 | 130 | Min.80 |
| Acrich MJT 3528 | WW | SAW8WA2A | 3.5x2.8x0.6 | 32.5 | 124 | 40 | -30~+85 | 2,600~3,700 | 120 | 82 |
| | CW | | | 32.5 | 132 | 40 | -30~+85 | 3,700~7,000 | | |
| Acrich MJT 4040 | CW | SAW09A0A | 4.0x4.0x2.2 | 32 | 170 | 40 | -30~+85 | 4,200~6,000 | 120 | Min.70 |
| | CW | SAW09H0A | 4.0x4.0x2.2 | 64 | 165 | 20 | -30~+85 | 4,200~6,000 | 120 | 70 |
| NEW Acrich MJT 5050 | WW | SAW8LH0A | 5.0x5.0x0.65 | 64 | 155 | 20 | -30~+100 | 2,600~3,700 | 120 | 80 |
| | CW | SAW0LH0A | 5.0x5.0x0.65 | 64 | 180 | 20 | -30~+100 | 4,700~7,000 | 120 | 70 |
| Acrich MJT 5630 | WW | SAW8KG0B | 5.6x3.0x0.75 | 22 | 49 | 20 | -30~+85 | 2,600~3,700 | 115 | 82 |
| | CW | | | 22 | 53 | | | 3,700~7,000 | | |
| | WW | SAW9KG0B | 5.6x3.0x0.75 | 22 | 45 | 20 | -30~+85 | 2,600~3,700 | 115 | Min.90 |

High Power LEDs & Chip-on-Board (COB) LEDs

The **High Power (Z-Power) Family** of LEDs have enhanced chip technology for low droop at high temperatures, plus a wide variety of CRI, colors and operating currents.

COB family (ZC series) is now available in a minimum 90 CRI option. It offers high efficacies, lumen density, ease of use and excellent color consistency over a wide range of lumen outputs from 500 to 5000 lumens.

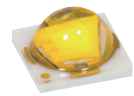
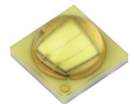
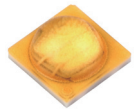


Chip-on-Board (COB) LEDs

| Series | Part No. | Color | Power [W] | VF [V] | IF [mA] | Flux [lm] Typ. | CCT [K] | CRI | 2θ 1/2 [°] | Luminous Efficacy [lm/W] | Rθ-j-s [K/W] | Junction Temp. [°C] |
|----------|----------|------------|-----------|--------|---------|----------------|---------|--------|------------|--------------------------|--------------|---------------------|
| ZC4 | SDW01F1B | Cool | 4.5 | 9 | 500 | 590 | 5,000 | Min.70 | 120 | 131 | 1.7 | 125 |
| | SDW81F1B | Warm | 4.5 | 9 | 500 | 500 | 3,000 | Min.80 | 120 | 111 | 1.7 | 125 |
| ZC6 | SDW01F1C | Cool | 6.7 | 37 | 180 | 870 | 5,000 | Min.70 | 120 | 130 | 1.4 | 125 |
| | | Neutral | 6.7 | 37 | 180 | 805 | 4,000 | Min.80 | 120 | 120 | 1.4 | 125 |
| | SDW81F1C | Warm | 6.7 | 37 | 180 | 710 | 2,700 | Min.80 | 120 | 106 | 1.4 | 125 |
| | | Neutral | 6.5 | 36 | 180 | 680 | 4,000 | Min.90 | 120 | 105 | 1.4 | 125 |
| | SDW91F1C | Warm | 6.5 | 36 | 180 | 635 | 3,000 | Min.90 | 120 | 98 | 1.4 | 125 |
| | | Neutral | 6.5 | 36 | 180 | 635 | 3,000 | Min.90 | 120 | 98 | 1.4 | 125 |
| ZC12 | SDW02F1C | Cool | 13 | 37 | 350 | 1,780 | 5,000 | Min.70 | 120 | 137 | 0.7 | 125 |
| | | Neutral | 13 | 37 | 350 | 1,620 | 4,000 | Min.80 | 120 | 125 | 0.7 | 125 |
| | SDW82F1C | Warm | 13 | 37 | 350 | 1,500 | 3,000 | Min.80 | 120 | 115 | 0.7 | 125 |
| | | Neutral | 13 | 37 | 350 | 1,385 | 4,000 | Min.90 | 120 | 107 | 0.7 | 125 |
| | SDW92F1C | Warm | 13 | 37 | 350 | 1,295 | 3,000 | Min.90 | 120 | 100 | 0.7 | 125 |
| | | Neutral | 13 | 37 | 350 | 1,295 | 3,000 | Min.90 | 120 | 100 | 0.7 | 125 |
| ZC18 | SDW03F1C | Cool | 18.5 | 37 | 500 | 2,520 | 5,000 | Min.70 | 120 | 136 | 0.7 | 125 |
| | | Neutral | 18.5 | 37 | 500 | 2,275 | 4,000 | Min.80 | 120 | 123 | 0.7 | 125 |
| | SDW83F1C | Warm | 18.5 | 37 | 500 | 2,050 | 3,000 | Min.80 | 120 | 111 | 0.7 | 125 |
| | | Neutral | 18.5 | 37 | 500 | 1,940 | 4,000 | Min.90 | 120 | 105 | 0.7 | 125 |
| SDW93F1C | Warm | 18.5 | 37 | 500 | 1,810 | 3,000 | Min.90 | 120 | 98 | 0.7 | 125 | |
| | Neutral | 18.5 | 37 | 500 | 1,810 | 3,000 | Min.90 | 120 | 98 | 0.7 | 125 | |
| ZC25 | SDW04F1C | Cool | 25.9 | 37 | 700 | 3,650 | 5,000 | Min.70 | 120 | 141 | 0.4 | 125 |
| | | Neutral | 25.9 | 37 | 700 | 3,400 | 4,000 | Min.80 | 120 | 131 | 0.4 | 125 |
| SDW84F1C | Warm | 25.9 | 37 | 700 | 3,140 | 3,000 | Min.80 | 120 | 121 | 0.4 | 125 | |
| | Neutral | 25.9 | 37 | 700 | 2,770 | 4,000 | Min.90 | 120 | 107 | 0.4 | 125 | |
| ZC25 | SDW94F1C | Warm | 25.9 | 37 | 700 | 2,590 | 3,000 | Min.90 | 120 | 100 | 0.4 | 125 |
| | | Neutral | 25.9 | 37 | 700 | 2,590 | 3,000 | Min.90 | 120 | 100 | 0.4 | 125 |
| ZC40 | SDW05F1C | Cool | 37 | 37 | 1,000 | 5,030 | 5,000 | Min.70 | 120 | 136 | 0.4 | 125 |
| | | Neutral | 37 | 37 | 1,000 | 4,650 | 4,000 | Min.80 | 120 | 126 | 0.4 | 125 |
| | SDW85F1C | Warm | 37 | 37 | 1,000 | 4,300 | 3,000 | Min.80 | 120 | 116 | 0.4 | 125 |
| | | Neutral | 37 | 37 | 1,000 | 3,885 | 4,000 | Min.90 | 120 | 105 | 0.4 | 125 |
| | SDW95F1C | Warm White | 37 | 37 | 1,000 | 3,625 | 3,000 | Min.90 | 120 | 98 | 0.4 | 125 |
| | | Neutral | 37 | 37 | 1,000 | 3,625 | 3,000 | Min.90 | 120 | 98 | 0.4 | 125 |



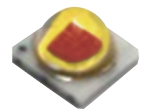
High Power LEDs (White)



| Series | Part No. | Color | V _i [V] | Flux[lm] Typ. | CCT [K] | CRI | I _f [mA] | | 2θ _{1/2} [°] |
|--------|---------------|-------|--------------------|------------------|---------|--------|---------------------|------|-----------------------|
| | | | | | | | Typ. | Max. | |
| Z5 | SZW05A0A | CW | 3.3 | 105 | 6,300 | 70 | 350 | 700 | 120 |
| | SZW05A0B | WW | | 124 | 6,000 | 70 | | | |
| Z5M1 | SZ5-M1-W0-00 | CW | 2.95 | 158 | 5,300 | Min.70 | 350 | 1500 | 118 |
| | SZ5-M1-WN-00 | NW | | 156 | 4,000 | Min.70 | | | |
| | SZ5-M1-WN-C8 | NW | | 142 | 4,000 | Min.80 | | | |
| | SZ5-M1-WW-C8 | WW | | 128 | 3,000 | Min.80 | | | |
| Z5P1 | SZ5-P1-W0-00 | CW | 3.05 | 148 | 5,300 | Min.70 | 350 | 1000 | 118 |
| | SZ5-P1-WN-00* | NW | | 143 | 4,000 | Min.70 | | | |
| | SZ5-P1-WN-C8 | NW | | 128 | 4,000 | Min.80 | | | |
| | SZ5-P1-WW-C8 | WW | | 115 | 3,000 | Min.80 | | | |

* Under Development

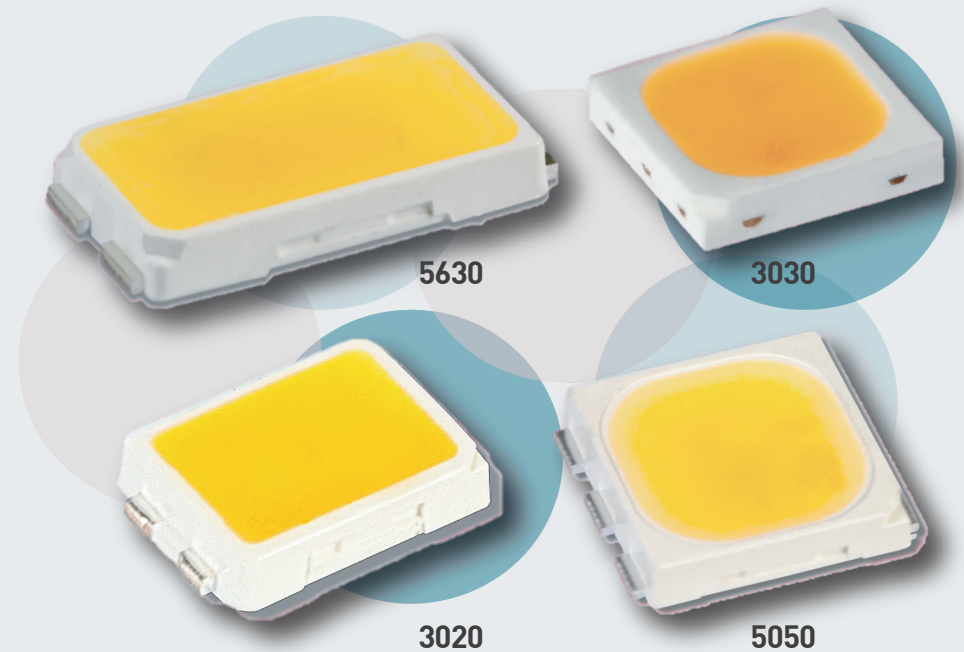
High Power LEDs (Color)



| Series | Part No. | Color | V _i [V] | Flux [lm] | λ _d [nm] | P [W] | I _f [mA] | | 2θ _{1/2} [°] |
|----------|----------|-------|--------------------|-----------|---------------------|-------|---------------------|------|-----------------------|
| | | | | | | | Typ. | Max. | |
| Z5 Color | SZR05A0A | Red | 2.4 | 55 | 625 | 1W | 350 | 700 | 123 |
| | SZG05A0A | Green | 3.3 | 100 | 525 | | | | 128 |
| | SZB05A0A | Blue | 3.3 | 22 | 460 | | | | 128 |
| | SZA05A0A | Amber | 2.3 | 46 | 592 | | | | 123 |

Mid-Power LEDs

The Mid-Power family includes the 3020, 3030, 5050, and 5630 – these LEDs combine a high reliability LED chip with high performance phosphor in a thermally enhanced package with a heat slug.





Electro Optical Characteristics

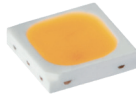
3020 Series

| Series | Part No. | Color | V _f [V] | CCT[K] | Flux[lm] Typ. | P[W] | I _f [mA] | | CRI | 2θ _{1/2} [°] |
|--------|----------|-------|--------------------|-------------|---------------|----------|---------------------|------|--------|-----------------------|
| | | | | | | | Typ. | Max. | | |
| 3020 | STW9B12C | WW | 3.2 | 2,600~4,200 | 27.3 | 0.3 | 100 | 120 | Min.80 | 120 |
| | STW9B12G | WW | 3 | 2,700 | 7.7 | Max 0.13 | 30 | 40 | Min.90 | 120 |
| | STW8B12B | CW | 3.05 | 3,700~7,000 | 13.5 | 0.12 | 40 | 80 | Min.80 | 120 |
| | | WW | 3.05 | 2,600~3,700 | 15.1 | 0.12 | 40 | 80 | Min.80 | 120 |
| | STW8B12C | CW | 3.15 | 3,700~7,000 | 36.6 | 0.3 | 100 | 120 | Min.80 | 120 |
| WW | | | 2,600~3,200 | 32.6 | | | | | | |



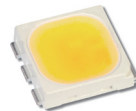
3030 Series

| Series | Part No. | Color | V _f [V] | CCT[K] | Flux[lm] Typ. | P[W] | I _f [mA] | | CRI | 2θ _{1/2} [°] |
|--------|----------|-------|--------------------|-------------|---------------|------|---------------------|------|--------|-----------------------|
| | | | | | | | Typ. | Max. | | |
| 3030 | STW7C2SA | White | 6.1 | 4,700~7,000 | 86.6 | 0.6 | 100 | 200 | Min.70 | 120 |
| | STW8C2SA | CW | | 3,700~7,000 | 81.5 | | | | Min.80 | |
| | | WW | 2,600~3,200 | 77.7 | Min.90 | | | | | |
| | STW9C2SA | White | 2,600~4,200 | 60 | Min.90 | | | | | |



5050 Series

| Series | Part No. | Color | V _f [V] | CCT[K] | Flux[lm] Typ. | P[W] | I _f [mA] | | CRI | 2θ _{1/2} [°] |
|----------|----------|-------|--------------------|-------------|---------------|------|---------------------|--------|--------|-----------------------|
| | | | | | | | Typ. | Max. | | |
| 5050 | STW7T16A | CW | 3.1 | 4,700~7,000 | 21.3 | 0.2 | 60 | 90 | 75 | 120 |
| | STW8T16A | CW | 3.1 | 3,700~7,000 | 20.7 | 0.2 | 60 | 90 | Min.80 | |
| | | WW | | 2,600~3,700 | 19.5 | | | | | |
| | STW8T36B | CW | 3.2 | 3,700~8,200 | 19.2 | 0.2 | 60 | 90 | 80 | |
| | | WW | 2,600~3,700 | 16.7 | | | | | | |
| | STW9T36B | CW | 3.2 | 3,700~8,200 | 15.2 | 0.2 | 60 | 90 | 90 | |
| | | WW | 2,600~3,700 | 14.6 | | | | | | |
| STW8T16C | CW | 3.1 | 3,700~8,200 | 27.5 | 0.2 | 65 | 100 | Min.80 | | |
| WW | | | 2,600~3,700 | 24.6 | | | | | | |



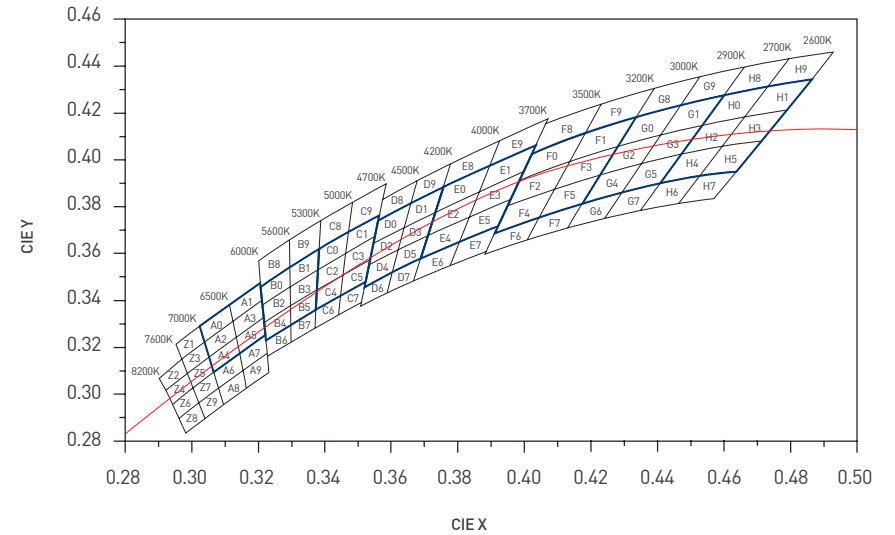
5630 Series

| Series | Part No. | Color | V _f [V] | CCT[K] | Flux[lm] Typ. | P[W] | I _f [mA] | | CRI | 2θ _{1/2} [°] |
|--------|-----------|-------|--------------------|-------------|---------------|--------|---------------------|------|--------|-----------------------|
| | | | | | | | Typ. | Max. | | |
| 5630 | STW8Q14C | CW | 3.15 | 3,700~7,000 | 43 | 0.3 | 100 | 160 | Min.80 | 120 |
| | | WW | 3.15 | 2,600~3,700 | 38.1 | | | | Min.80 | |
| | STW9Q14C | WW | 3.15 | 2,600~4,200 | 30.9 | Min.90 | | | | |
| | *STW8Q14D | CW | 2.8 | 5,000 | 30.8 | 0.17 | 60 | 200 | Min.80 | |
| | | WW | 2.8 | 3,000 | 28.3 | 0.17 | 60 | 200 | Min.80 | |
| | STW8Q14BE | CW | 3.2 | 2,600~7,000 | 35 | 0.3 | 100 | 160 | Min.80 | |
| | WW | 3.2 | 2,600~7,000 | 33 | Min.80 | | | | | |
| | STW9Q14B | White | 3.2 | 2,600~4,500 | 28.5 | 0.3 | 100 | 160 | Min.90 | |
| | STW8Q2PA | White | 3.2 | 2,600~7,000 | 29 | | | | Min.80 | |

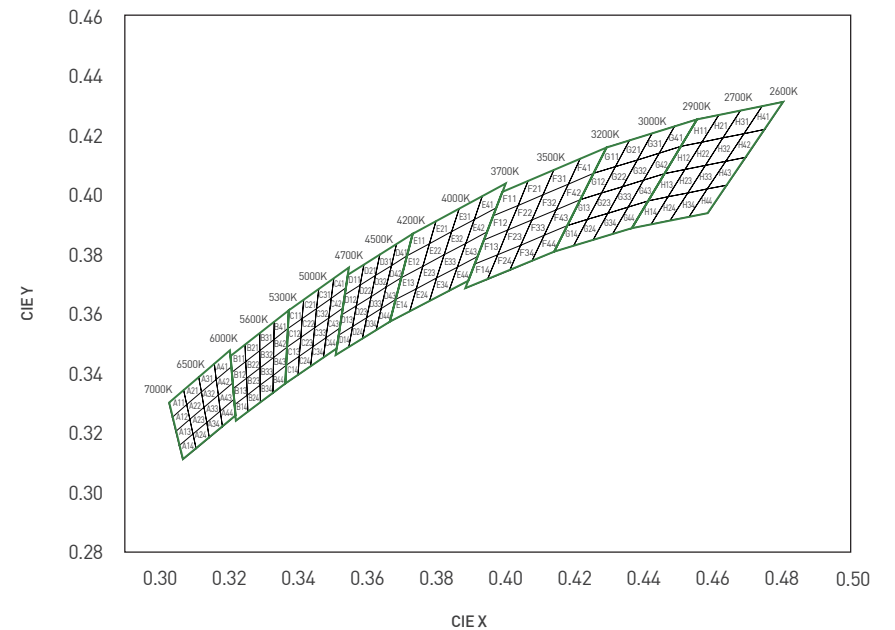


* Coming soon in July, 2014

ANSI-Color Bin



MacAdam 3-STEP Rank





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