

## J SERIES® WHITE LEDs

- Excellent value for general and specialty lighting applications in the industry's most common LED package sizes
- Highest efficacy 2835 (3-V G Class) & 5050 (5050C E Class) LEDs available
- New JB3030C LEDs deliver highest J Series efficacy in 301B/H compatible footprint
- Cree LED's top-tier global IP indemnification

December 2023 (FS33R13)

### 2835 PRO9™

- Up to 24% higher efficacy for 90 CRI over standard version LEDs without sacrificing color rendering quality



| Voltage Class | Product / Class | Typ. Current (mA) | Typ. Voltage (V) | 4000 K, 90 CRI    |             | 3000 K, 90 CRI    |             | Max. Current (mA) | CCT Min | CCT Max | CRI Options |  |    |  |
|---------------|-----------------|-------------------|------------------|-------------------|-------------|-------------------|-------------|-------------------|---------|---------|-------------|--|----|--|
|               |                 |                   |                  | Typical Flux (lm) | Typical LPW | Typical Flux (lm) | Typical LPW |                   |         |         |             |  |    |  |
| 3-V           | JB2835B / G     | 55                | 2.67             | 30.5              | 208         | 29.4              | 200         | 480               | 2700K   | 6500K   |             |  | 90 |  |
|               | JB2835B / J     | 55                | 2.68             | 30.2              | 205         | 29.0              | 197         | 480               | 2700K   | 6500K   |             |  | 90 |  |
|               | JB2835B / N     | 55                | 2.70             | 29.4              | 198         | 28.4              | 191         | 240               | 2700K   | 6500K   |             |  | 90 |  |
| 9-V           | JK2835B / U     | 100               | 9.10             | 133               | 146         | 127               | 140         | 120               | 2700K   | 6500K   |             |  | 90 |  |

### 2835 PRECISION DIMMING

- Simplified binning that improves light output and hue consistency when dimming LEDs to low current

| Voltage Class | Product / Class | Typ. Current (mA) | Typ. Voltage (V) | 4000 K, 80 CRI    |             | 3000 K, 80 CRI    |             | Max. Current (mA) | CCT Min | CCT Max | CRI Options |    |    |  |
|---------------|-----------------|-------------------|------------------|-------------------|-------------|-------------------|-------------|-------------------|---------|---------|-------------|----|----|--|
|               |                 |                   |                  | Typical Flux (lm) | Typical LPW | Typical Flux (lm) | Typical LPW |                   |         |         |             |    |    |  |
| 3-V           | JB2835B / J     | 55                | 2.68             | 31.0              | 210         | 29.1              | 197         | 480               | 2700K   | 6500K   |             | 80 | 90 |  |
|               | JE2835B / N     | 150               | 2.86             | 78.1              | 182         | 73.8              | 172         | 240               | 2700K   | 6500K   |             | 80 | 90 |  |

### 2835 STANDARD

| Voltage Class | Product / Class | Typ. Current (mA) | Typ. Voltage (V) | 4000 K, 80 CRI    |             | 3000 K, 80 CRI    |             | Max. Current (mA) | CCT Min | CCT Max | CRI Options |    |    |    |
|---------------|-----------------|-------------------|------------------|-------------------|-------------|-------------------|-------------|-------------------|---------|---------|-------------|----|----|----|
|               |                 |                   |                  | Typical Flux (lm) | Typical LPW | Typical Flux (lm) | Typical LPW |                   |         |         |             |    |    |    |
| 3-V           | JB2835B / G     | 55                | 2.67             | 32.1              | 219         | 30.2              | 207         | 480               | 2200K   | 6500K   | 70          | 80 | 90 |    |
|               | JB2835B / J     | 55                | 2.68             | 31.0              | 210         | 29.1              | 197         | 480               | 2700K   | 6500K   | 70          | 80 | 90 |    |
|               | JE2835B / N     | 150               | 2.86             | 78.1              | 182         | 73.8              | 172         | 240               | 2200K   | 6500K   | 70          | 80 | 90 | 95 |
|               | JE2835B / P     | 150               | 3.04             | 77.0              | 169         | 72                | 158         | 240               | 2700K   | 6500K   | 70          | 80 | 90 | 95 |
|               | JE2835 / R      | 150               | 2.95             | 73.5              | 166         | 70.5              | 159         | 240               | 2200K   | 6500K   | 70          | 80 | 90 |    |
|               | JB2835 / W      | 60                | 2.91             | 30.4              | 174         | 29.1              | 167         | 150               | 2200K   | 6500K   |             | 80 | 90 |    |
| 6-V           | JK2835 / P      | 150               | 6.07             | 154               | 169         | 146               | 160         | 240               | 2700K   | 6500K   | 70          | 80 | 90 |    |
|               | JK2835B / W     | 150               | 6.35             | 137               | 144         | 131               | 138         | 200               | 2700K   | 6500K   | 70          | 80 | 90 |    |
| 9-V           | JK2835B / U     | 100               | 9.10             | 143               | 157         | 132               | 145         | 120               | 2200K   | 6500K   |             | 80 | 90 |    |
|               | JK2835B / W     | 100               | 9.15             | 132               | 144         | 124               | 136         | 120               | 2200K   | 6500K   | 70          | 80 | 90 |    |
| 18-V          | JK2835B / U     | 50                | 18.1             | 141               | 156         | 133               | 147         | 60                | 2200K   | 6500K   |             | 80 | 90 |    |
|               | JK2835 / X      | 50                | 18.2             | 126               | 138         | 119               | 131         | 60                | 2200K   | 6500K   | 70          | 80 | 90 |    |

## 5050



JR5050C



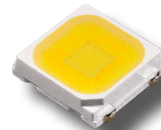
JR5050B



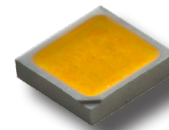
JR5050

| Voltage Class | Product / Class | Typ. Current (mA) | Typ. Voltage (V) | 4000 K, 70 CRI    |             | 3000 K, 80 CRI    |             | Max. Current (mA) | CCT Min | CCT Max | CRI Options |    |    |  |
|---------------|-----------------|-------------------|------------------|-------------------|-------------|-------------------|-------------|-------------------|---------|---------|-------------|----|----|--|
|               |                 |                   |                  | Typical Flux (lm) | Typical LPW | Typical Flux (lm) | Typical LPW |                   |         |         |             |    |    |  |
| 6-V           | JR5050C / E     | 400               | 5.63             | 480               | 213         | 424               | 188         | 1000              | 2200K   | 6500K   | 70          | 80 | 90 |  |
|               | JR5050B / K     | 400               | 5.67             | 455               | 201         | 404               | 178         | 1000              | 2700K   | 6500K   | 70          | 80 | 90 |  |
|               | JR5050 / P      | 400               | 5.77             | 442               | 192         | 394               | 171         | 1000              | 2700K   | 6500K   | 70          | 80 | 90 |  |
|               | JR5050 / Q      | 400               | 5.8              | 425               | 183         | 385               | 166         | 1000              | 2700K   | 6500K   | 70          | 80 | 90 |  |
| 9-V           | JR5050 / P      | 260               | 8.56             | 434               | 195         | 383               | 172         | 660               | 2700K   | 6500K   | 70          | 80 | 90 |  |
|               | JR5050 / Q      | 260               | 8.6              | 415               | 186         | 372               | 166         | 660               | 2700K   | 6500K   | 70          | 80 | 90 |  |
| 24-V          | JR5050 / P      | 100               | 23.08            | 442               | 192         | 394               | 171         | 240               | 2700K   | 6500K   | 70          | 80 | 90 |  |
|               | JR5050 / Q      | 100               | 23.5             | 430               | 183         | 385               | 164         | 240               | 2700K   | 6500K   | 70          | 80 | 90 |  |
| 30-V          | JR5050B / K     | 80                | 28.35            | 455               | 201         | 404               | 178         | 240               | 2700K   | 6500K   | 70          | 80 | 90 |  |
| 36-V          | JR5050 / Q      | 65                | 34.5             | 415               | 185         | 372               | 166         | 165               | 2700K   | 6500K   | 70          | 80 | 90 |  |

## 3030



JB3030C



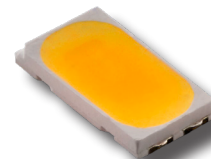
Jx3030 HE



Jx3030

| Voltage Class | Product / Class | Typ. Current (mA) | Typ. Voltage (V) | 4000 K, 70 CRI    |             | 3000 K, 80 CRI    |             | Max. Current (mA) | CCT Min | CCT Max | CRI Options |    |    |  |
|---------------|-----------------|-------------------|------------------|-------------------|-------------|-------------------|-------------|-------------------|---------|---------|-------------|----|----|--|
|               |                 |                   |                  | Typical Flux (lm) | Typical LPW | Typical Flux (lm) | Typical LPW |                   |         |         |             |    |    |  |
| 3-V           | JB3030C / E     | 55                | 2.66             | 35.4              | 242         | 31.6              | 216         | 240               | 2700K   | 6500K   | 70          | 80 | 90 |  |
|               | JB3030C / F     | 55                | 2.67             | 34.1              | 232         | 30.6              | 208         | 240               | 2700K   | 6500K   | 70          | 80 | 90 |  |
|               | JB3030 HE / B   | 65                | 2.70             | 38.3              | 218         | 34.1              | 194         | 480               | 2700K   | 6500K   | 70          | 80 | 90 |  |
|               | JB3030 HE / D   | 65                | 2.79             | 37.9              | 209         | 33.8              | 186         | 240               | 2700K   | 6500K   | 70          | 80 | 90 |  |
|               | JB3030 / P      | 65                | 2.81             | 35.7              | 196         | 31.7              | 174         | 240               | 2700K   | 6500K   | 70          | 80 | 90 |  |
|               | JK3030 / P      | 350               | 3.15             | 164               | 149         | 144               | 131         | 400               | 2700K   | 6500K   | 70          | 80 | 90 |  |
| 6-V           | JK3030 HE / B   | 150               | 6.00             | 160               | 178         | 143               | 159         | 240               | 2700K   | 6500K   | 70          | 80 | 90 |  |
|               | JK3030 / P      | 150               | 6.14             | 159               | 173         | 141               | 153         | 240               | 2200K   | 6500K   | 70          | 80 | 90 |  |

## 5630 &amp; 2016



| Voltage Class | Product / Class | Typ. Current (mA) | Typ. Voltage (V) | 4000 K, 80 CRI    |             | 3000 K, 80 CRI    |             | Max. Current (mA) | CCT Min | CCT Max | CRI Options |    |    |    |
|---------------|-----------------|-------------------|------------------|-------------------|-------------|-------------------|-------------|-------------------|---------|---------|-------------|----|----|----|
|               |                 |                   |                  | Typical Flux (lm) | Typical LPW | Typical Flux (lm) | Typical LPW |                   |         |         |             |    |    |    |
| 3-V           | JB5630 / H      | 65                | 2.71             | 36.8              | 209         | 34.5              | 196         | 240               | 2700K   | 6500K   | 70          | 80 | 90 |    |
|               | JB5630 / P      | 65                | 2.80             | 36.4              | 200         | 33.6              | 185         | 240               | 2700K   | 6500K   | 70          | 80 | 90 |    |
|               | JB2016B / P     | 60                | 3.0              | 27.8              | 154         | 26.5              | 147         | 120               | 2200K   | 6500K   |             | 80 | 90 | 95 |