

J Series® JE2835B 3-V N Class LED Product Change Notification

Customer Name: JE2835B 3-V N Class Customers PCN Reference Number: CVL-PCN-2106
Date Issued: May 27, 2021

Please be advised that Cree LED has qualified a Major change to the JE2835B 3-V N Class LEDs and that we will begin shipping the affected products with the change 90 days after the PCN Issue Date.

Please review the additional information below.

Affected Product

Table 1 provides a list of products affected by this Major change:

Table 1 Affected Products List

Cree LED Part Number	Cree LED Part Number
JE2835BWT-N-B27EA0000-N0000001	JE2835BWT-N-B27GA0000-N0000001
JE2835BWT-N-B30EA0000-N0000001	JE2835BWT-N-B30GA0000-N0000001
JE2835BWT-N-B35EA0000-N0000001	JE2835BWT-N-B35GA0000-N0000001
JE2835BWT-N-B40EA0000-N0000001	JE2835BWT-N-B40GA0000-N0000001
JE2835BWT-N-B50EA0000-N0000001	JE2835BWT-N-B50GA0000-N0000001
JE2835BWT-N-B57EA0000-N0000001	JE2835BWT-N-B57GA0000-N0000001
JE2835BWT-N-B65EA0000-N0000001	JE2835BWT-N-B65GA0000-N0000001
JE2835BWT-N-H27EA0000-N0000001	JE2835BWT-N-H27GA0000-N0000001
JE2835BWT-N-H30EA0000-N0000001	JE2835BWT-N-H30GA0000-N0000001
JE2835BWT-N-H35EA0000-N0000001	JE2835BWT-N-H35GA0000-N0000001
JE2835BWT-N-H40EA0000-N0000001	JE2835BWT-N-H40GA0000-N0000001
JE2835BWT-N-H50EA0000-N0000001	JE2835BWT-N-H50GA0000-N0000001
JE2835BWT-N-H57EA0000-N0000001	JE2835BWT-N-H57GA0000-N0000001
JE2835BWT-N-H65EA0000-N0000001	JE2835BWT-N-H65GA0000-N0000001
JE2835BWT-N-U27EA0000-N0000001	JE2835BWT-N-U27GA0000-N0000001
JE2835BWT-N-U30EA0000-N0000001	JE2835BWT-N-U30GA0000-N0000001
JE2835BWT-N-U35EA0000-N0000001	JE2835BWT-N-U35GA0000-N0000001
JE2835BWT-N-U40EA0000-N0000001	JE2835BWT-N-U40GA0000-N0000001

Cree LED Part Number	Cree LED Part Number
JE2835BWT-N-U50EA0000-N0000001	JE2835BWT-N-U50GA0000-N0000001
JE2835BWT-N-U57EA0000-N0000001	JE2835BWT-N-U57GA0000-N0000001
JE2835BWT-N-U65EA0000-N0000001	JE2835BWT-N-U65GA0000-N0000001

Description of the Change

Cree LED is changing the chips on the JE2835B 3-V N Class LEDs; as part of this change, the typical forward voltage, temperature coefficient of voltage, thermal resistance characteristics, operating limits curve, electrical characteristics curve and typical flux values for the JE2835B 3-V N Class LEDs will change.

Table 2 shows the current and new values:

Table 2: JE2835B 3-V N Class Current & New Values

Typical Forward Voltage (V) @ 150 mA, 25 °C		Temperature Coefficient of Voltage (mV/°C)		Thermal Resistance (°C/W)	
Current	New	Current	New	Current	New
2.91	2.86	-1.0	-1.4	15	11

The following graphs show the improved Operating Limits and Forward Voltage vs. Current curve.

Figure 1: New and Current Operating Limits

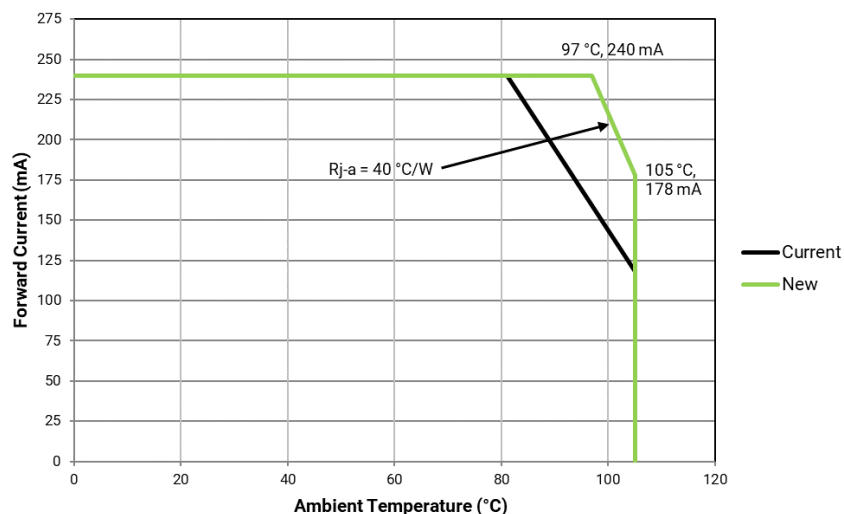


Figure 2: New and Current Forward Voltage vs. Current Curve

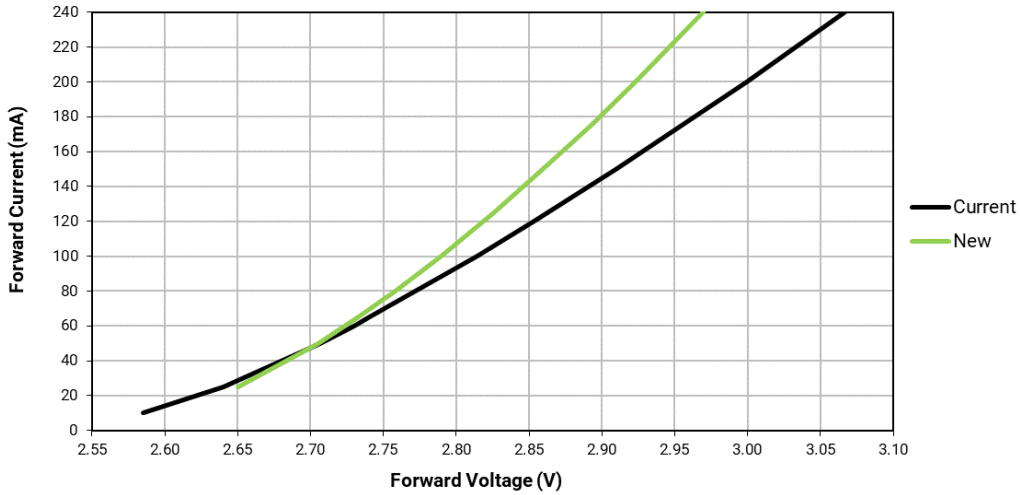


Table 3: New and Current Flux Values for JE2835B 3-V N Class

CRI / CCT	Typical Flux (lm) @25°C	
	New	Current
70 CRI, 2700 K	74.9	75
70 CRI, 3000 K	77.9	79
70 CRI, 3500 K	79.9	80
70 CRI, 4000 K	82.9	83
70 CRI, 5000 K	82.9	83
70 CRI, 5700 K	82.9	83
70 CRI, 6500 K	82.9	83
80 CRI, 2700 K	70.7	71.5
80 CRI, 3000 K	73.8	74.5
80 CRI, 3500 K	75.8	76.5
80 CRI, 4000 K	78.1	78.5
80 CRI, 5000 K	78.1	78.5
80 CRI, 5700 K	78.1	78.5
80 CRI, 6500 K	77.1	78.5
90 CRI, 2700 K	59.3	59.5
90 CRI, 3000 K	62.1	62.5

CRI / CCT	Typical Flux (lm) @25°C	
	New	Current
90 CRI, 3500 K	64.2	65.5
90 CRI, 4000 K	66.0	67.5
90 CRI, 5000 K	66.0	67.5
90 CRI, 5700 K	66.0	67.5
90 CRI, 6500 K	66.0	67.5

This product change does not affect the order codes, chromaticity bin codes, flux groups, or the forward voltage bin codes.

The LEDs with the existing chips are limited to parts with bin codes with 0F as the last two characters.

Reason for the Change

The change is being implemented to provide our customers with the latest technology and performance.

Change Impact on Form, Fit, Function, or Reliability

This change has no impact on the form, fit, function, or reliability of these LEDs beyond the changes listed above. We will begin shipping the affected product with the change 90 days after the PCN Issue Date. No customer action is required.

Cree LED Contact Information

If you have any questions regarding this PCN please contact:

Table 4 PCN Contact

Contact Name:	Cree LED Customer Service
Contact E-Mail:	xlampsales@cree-led.com
Contact Phone:	US toll free: 1-844-273-3533 Outside the US: +1 919-313-5301
Address:	CreeLED, Inc. 4400 Silicon Dr. Durham, NC 27703-8475 USA



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