

J Series® JK2835 18-V X Class LEDs

Product Change Notification

Customer Name: JK2835 18V X Class LED Customers

PCN Reference Number: PCN-6053
Date Issued: January 19, 2024

Please be advised that Cree LED has qualified a change to the J Series® JK2835 18-V X Class LEDs which does not impact their form, fit, function, or reliability. Cree LED will begin shipping the affected product no sooner than April 11, 2024.

Please review the additional PCN information below.

Affected Product

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

Table 1 Affected Products List

Product	Cree LED Part Number
JK2835 18V X Class	JK2835AWT-X-xxxxFxxxx-xxxxxxxxx
	JK2835AWT-X-B27EF0000-N0000001
	JK2835AWT-X-B30EF0000-N0000001
	JK2835AWT-X-B35EF0000-N0000001
	JK2835AWT-X-B40EF0000-N0000001
	JK2835AWT-X-B50EF0000-N0000001
	JK2835AWT-X-B57EF0000-N0000001
	JK2835AWT-X-B65EF0000-N0000001
	JK2835AWT-X-H22EF0000-N0000001
	JK2835AWT-X-H27EF0000-N0000001
	JK2835AWT-X-H30EF0000-N0000001
	JK2835AWT-X-H35EF0000-N0000001
	JK2835AWT-X-H40EF0000-N0000001
	JK2835AWT-X-H50EF0000-N0000001
	JK2835AWT-X-H57EF0000-N0000001
	JK2835AWT-X-H65EF0000-N0000001
	JK2835AWT-X-U22EF0000-N0000001
	JK2835AWT-X-U27EF0000-N0000001
	JK2835AWT-X-U30EF0000-N0000001

Product	Cree LED Part Number
	JK2835AWT-X-U35EF0000-N0000001
	JK2835AWT-X-U40EF0000-N0000001
	JK2835AWT-X-U50EF0000-N0000001
	JK2835AWT-X-U57EF0000-N0000001
	JK2835AWT-X-U65EF0000-N0000001

Description of Change

Cree LED has qualified a new chip for the JK2835 18-V X Class LEDs. The appearance of the LED with the current chip and with the new chip is unchanged.

Cree LED will be changing the minimum and typical fluxes for the JK2835 18-V X Class LEDs. Table 2 shows the new and current values.

Table 2 New & Current Minimum & Typical Flux Specs

Part Number	New Flux Specs		Current Flux Specs	
	Minimum	Typical	Minimum	Typical
JK2835AWT-X-B27EF0000-N0000001	120	127	115	121
JK2835AWT-X-B30EF0000-N0000001	125	132	120	125
JK2835AWT-X-B35EF0000-N0000001	130	136	120	128
JK2835AWT-X-B40EF0000-N0000001	130	139	125	132
JK2835AWT-X-B50EF0000-N0000001	130	139	125	132
JK2835AWT-X-B57EF0000-N0000001	130	139	125	132
JK2835AWT-X-B65EF0000-N0000001	130	137	125	132
JK2835AWT-X-H22EF0000-N0000001	95	100	90	97
JK2835AWT-X-H27EF0000-N0000001	110	118	110	115
JK2835AWT-X-H30EF0000-N0000001	115	123	110	119
JK2835AWT-X-H35EF0000-N0000001	120	126	115	122
JK2835AWT-X-H40EF0000-N0000001	125	131	120	126
JK2835AWT-X-H50EF0000-N0000001	125	131	120	126
JK2835AWT-X-H57EF0000-N0000001	125	131	120	126
JK2835AWT-X-H65EF0000-N0000001	120	129	120	126
JK2835AWT-X-U22EF0000-N0000001	80	88.5	75	82
JK2835AWT-X-U27EF0000-N0000001	95	103	90	97
JK2835AWT-X-U30EF0000-N0000001	100	106	95	101
JK2835AWT-X-U35EF0000-N0000001	100	109	95	104

Part Number	New Flux Specs		Current Flux Specs	
	Minimum	Typical	Minimum	Typical
JK2835AWT-X-U40EF0000-N0000001	110	115	100	107
JK2835AWT-X-U50EF0000-N0000001	110	115	100	107
JK2835AWT-X-U57EF0000-N0000001	110	115	100	107
JK2835AWT-X-U65EF0000-N0000001	105	113	100	107

Cree LED will be changing the forward voltage for the JK2835 18-V X Class LEDs. Table 3 shows the new and current values.

Table 3 New & Current Forward Voltage Specs

New Forward Voltage		Current Forward Voltage	
Typical Forward Voltage (V)	Maximum Forward Voltage (V)	Typical Forward Voltage (V)	Maximum Forward Voltage (V)
18.5	18.85	18.2	19.0

Cree LED will be changing the forward voltage bins for the JK2835 18-V X Class LEDs. Table 4 shows the new and current bins.

Table 4 New & Current Forward Voltage Bins

New Forward Voltage Bin			Current Forward Voltage Bins		
Voltage Bin	Min. Forward Voltage (V)	Max. Forward Voltage (V)	Voltage Bin	Min. Forward Voltage (V)	Max. Forward Voltage (V)
FM	17.8	18.15	FU	17.5	18.0
FN	18.15	18.5	FV	18.0	18.5
FP	18.5	18.85	FW	18.5	19.0

Reason for Change

The chip used in these LEDs has reached its end-of-life and must be replaced.

Change Impact on Form, Fit, Function, or Reliability

Cree LED will begin shipping the affected product no sooner than April 11, 2024. Each reel of JK2835 18-V X Class LEDs will contain LEDs with either the current chip or the new chip. Current and new chip JK2835 18-V X Class LEDs will not be mixed on a reel. Customers may receive shipments containing the current chip until Cree

LED's inventory of the current chip is depleted. Customers purchasing through a distributor will be further delayed to see this change until the inventory of the current LEDs is depleted from distributor stock.

This has no impact on the form, fit, function, or reliability of the above series LEDs. No customer action is required. This product change does not affect the order codes.

The LEDs with the current chip are limited to parts with bin codes with x2 or x3 as the last two characters, where x can represent any alphanumeric character. Figure 1 shows an example of labels of the LEDs with the current chip with bin codes with x2 as the last two characters.

Figure 1: Example of bin codes with x2 as the last two characters



Cree LED Contact Information

If you have any questions regarding this PCN please contact:

Table 5 PCN Contact

Contact:	Cree LED Customer Service
Contact E-Mail:	CS@cree-led.com
Contact Phone:	US toll free: 1-844-273-3533 Outside the US: +1 919-313-5301
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