PRODUCT CHANGE NOTIFICATION
PCN No: PCN-1098
Issue Date: 8/29/2025

Parts Affected	5BWD-F	Old Rev.	B	New Rev.	C
	5BWC		B		C
	5BWD		B		C
	3BWD-F		D		E
	3BWD-S		D		E

Change Will Affect:

LED optical, electrical and mechanical characteristics.

Description of Change:

A change in the epoxy material used for lens encapsulation has led to a variation in the visual appearance of the lens color.

Other changes are reflected as shown in the tables below.

Effective Date of Change: August 29, 2025

Reason for Change: Discontinuance of the epoxy material used for the lens encapsulation.

These changes have been reviewed and approved by Bivar management per Bivar Procedure: Engineering Change Order and Part Change Notification, SOP-040, SOP-ENG-045
Please contact Bivar Inc. at www.bivar.com/contact or speak to a Bivar representative for any questions or support requirements within 30 days of issue date.

3BWX-X

	Specification	3BWX-X Rev. D	3BWX-X Rev. E
1	Power Dissipation (mW)	150	170
2	Peak Forward Current (mA)	70	100
3	Operating Temperature (C)	-25 to +85	-40 to +80
4	Storage Temperature Range (C)	-25 to +100	-40 to +100
5	Directivity Radiation Diagram	REF	UPDATED
6	Lumen vs Wavelength Graph @20mA	REF	UPDATED
7	Forward Current vs Forward Voltage	REF	UPDATED
8	Material:		
	3BWD-F	GaN/SiC	GaN/SiC
	3BWD-S	GaN/SiC	InGaN/SiC
9	Dominant Wavelength (nm):		
	3BWD-F	N/A - N/A - N/A	455 - 460 - 465
	3BWD-S	N/A - N/A - N/A	460 - 465 - 470
10	Luminous Intensity MIN/TYP/MAX (mcd)		
	3BWD-F	5/10/2020	10/20/1935
	3BWD-S	5/10/2020	7/14/2028
11	Peak Wavelength TYP (nm)		
	3BWD-F	430	430
	3BWD-S	430	455
12	View Angle (Degree)		
	3BWD-F	35	50
	3BWD-S	40	40
13	Forward Voltage MIN, TYP, MAX (V)		
	3BWD-F	N/A - 4 - 4.5	3.5 - 4 - 4.5
	3BWD-S	N/A - 4 - 4.5	3.1 - 3.8 - 4.5
14	Reverse Current MAX (uA)		
	3BWD-F	100	10
	3BWD-S	100	20

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5BWX-X

	Specification	5BWX-X Rev. B	5BWX-X Rev. C
1	Power Dissipation (mW)	150	170
2	Peak Forward Current (mA)	70	100
3	Operating Temperature (C)	-25 to +85	-30 to +100
4	Storage Temperature Range (C)	-25 to +80	-40 to +100
5	Directivity Radiation Diagram	REF	UPDATED
6	Lumen vs Wavelength Graph @20mA	REF	UPDATED
7	Forward Current vs Forward Voltage	REF	UPDATED
8	Material:	GaN/SiC	InGaN/SiC
9	Dominant Wavelength (nm):		
	5BWD-F	N/A - N/A - N/A	460 - 465 - 470
	5BWC	N/A - N/A - N/A	460 - 465 - 470
	5BWD	N/A - N/A - N/A	425 - 430 - 435
10	Luminous Intensity MIN/TYP/MAX (mcd)		
	5BWD-F	N/A - 15 - N/A	10 - 20 - 35
	5BWC	N/A - 30 - N/A	60 - 150 - 300
	5BWD	N/A - 15 - N/A	6 - 15 - 25
11	Peak Wavelength TYP (nm)		
	5BWD-F	430	460
	5BWC	430	460
	5BWD	430	425
12	View Angle (Degree)		
	5BWD-F	40	50
	5BWC	20	18
	5BWD	45	30
13	Forward Voltage MIN, TYP, MAX (V)		
	5BWD-F	N/A - 4 - 4.5	3.1 - 3.8 - 4.5
	5BWC	N/A - 4 - 4.5	3.5 - 4 - 4.5
	5BWD	N/A - 4 - 4.5	3.5 - 4 - 4.5
14	Reverse Current MAX (uA)		
	5BWD-F	100	20
	5BWC	100	10
	5BWD	100	10

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