



PRODUCT CHANGE NOTIFICATION

PCN No: PCN-1104

Issue Date: 12/16/2025

Parts Affected	SM0603SBWC	Old Rev.	A	New Rev.	B
	SM0603HCL	Old Rev.	A	New Rev.	B
	SM0605BC-R/G	Old Rev.	B	New Rev.	C
	SM0605RGB	Old Rev.	B	New Rev.	C

Change Will Affect:

LED optical, electrical and mechanical characteristics.

Description of Change:

Changes are reflected as shown in the tables below.

SM0603SBWC

	Specification	SM0603SBWC Rev. A	SM0603SBWC Rev. B
1	Material	InGaN	GaN
2	Operating Temperature Range (C)	-30C to +80C	-40C to +85C
3	Forward Voltage MIN/TYP/MAX (V)	N/A - 3.0 - 4.2	2.7 - 3.0 - 3.3
4	Dominant Wavelength (nm)	N/A - 470 - N/A	464 - 469 - 476
5	Luminous Intensity MIN/TYP/MAX (mcd)	72 - 115 - N/A	115 - 145 - 225
6	Lumen Intensity vs Forward Current Graph	-	Revised

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.

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SM0603HCL

	Specification	SM0603HCL Rev. A	SM0603HCL Rev. B
1	Luminous Intensity MIN/TYP/ MAX (mcd)	7.2 - 11.5 - N/A	18 - 28.5 - 45
2	Operating Temperature Range (C)	-30C to +80C	-40C to +85C
3	Typical Current (mA)	2mA	5mA
4	Forward Voltage MIN/TYP/MAX (V)	N/A - 1.9 - 2.3	1.5 - 1.8 - 2.1
5	Dominant Wavelength (nm)	N/A - 631 - N/A	623 - 627 - 640
6	Forward Current Vs Forward Voltage Graph	-	Revised

SM0605RGB

	Specification	SM0605RGB Rev. B	SM0605RGB Rev. C
1	Luminous Intensity MIN/TYP/ MAX (mcd)	Red: 72 - 120 - N/A Green: 450 - 700 - N/A Blue: 90 - 145 - N/A	Red: 115 - 145 - 225 Green: 750 - 950 - 1150 Blue: 115 - 180 - 285
2	Power Dissipation (mW)	Green: 108 Blue: 108	Green: 100 Blue: 100
3	Operating Temperature (C)	-30C to +80C	-40C to +85C
4	Forward Voltage MIN/TYP/MAX (V)	Red: N/A - 2.0 - 2.4 Green: N/A - 3.1 - 4.2 Blue: N/A - 2.9 - 4.2	Red: 1.8 - 2.0 - 2.6 Green: 2.25 - 3.0 - 4.0 Blue: 2.5 - 3.0 - 4.0
5	Dominant Wavelength MIN/TYP/ MAX (nm)	Red: N/A - 625 - N/A Green: N/A - 525 - N/A Blue: N/A - 470 - N/A	Red: 617 - 625 - 632 Green: 523 - 526 - 529 Blue: 463 - 466 - 470

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SM0605BC-R/G

	Specification	SM0605BC-R/G Rev. B	SM0605BC-R/G Rev. C
1	Luminous Intensity MIN/TYP/ MAX (mcd)	Red: 45 - 72 - N/A Green: 18 - 28.5 - N/A	Red: 90 - 115 - 145 Green: 36 - 45 - 57
2	Operating Temperature Range (C)	-30C to +80C	-40C to +85
3	Forward Voltage MIN/TYP/MAX (V)	Red: N/A - 2.1 - 2.6 Green: N/A - 2.2 - 2.6	Red: 1.8 - 2.1 - 2.6 Green: 1.95 - 2.1 - 2.6
4	Dominant Wavelength (nm)	Red: N/A - 631 - N/A Green: N/A - 574 - N/A	Red: 623 - 631 - 640 Green: 570 - 574 - 576

Effective Date of Change: December 16, 2025

Reason for Change: New chips are being used due to chip obsolescence.

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