



PRODUCT CHANGE NOTIFICATION

PCN No: PCN-1108

Issue Date: 12/16/2025

Parts Affected	SM0807SBC	Old Rev.	A	New Rev.	B
	SM0805HCL	Old Rev.	B	New Rev.	C
	SM0805GCL	Old Rev.	C	New Rev.	D

Change Will Affect:

LED optical, electrical and mechanical characteristics.

Description of Change:

Changes are reflected as shown in the tables below.

SM0805GCL

	Specification	SM0805GCL Rev. C	SM0805GCL Rev. D
1	Forward Current Typical (mA)	2mA	5mA
2	Luminous MIN/TYP/MAX (mcd)	1.2 - 3.6 - N/A	9 - 14.5 - 22.5
3	Operating Temperature Range (C)	-30 to +80	-40 to +85
4	Forward Voltage MIN/TYP/MAX (V)	N/A - 1.9 - 2.3	1.7 - 2 - 2.3
5	Dominant Wavelength (nm)	N/A - 574 - N/A	568 - 572 - 578
6	Lumen Intensity Vs Forward Current Graph	-	Revised
7	Relative Lumen Intensity Vs Peak Wavelength 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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SM0805HCL

	Specification	SM0805HCL Rev. B	SM0805HCL Rev. C
1	Luminous MIN/TYP/MAX (mcd)	7.2 - 11.5 - N/A	14.5 - 22.5 - 45
2	Operating Temperature Range (C)	-30C to +80C	-40C to +85C
3	Forward Voltage MIN/TYP/MAX (V)	N/A - 1.9 - 2.3	1.6 - 1.9 - 2.2
4	Forward Current (mA)	2	5
5	Dominant Wavelength (nm)	N/A - 631 - N/A	623 - 627 - 640
6	Forward Current vs Forward Voltage Graph	-	Revised
7	Luminous Intensity vs Forward Current Graph	-	Revised

SM0807SBC

	Specification	SM0807SBC Rev. A	SM0807SBC Rev. B
1	TYP Peak Wavelength (nm)	Red= 640 Green= 575	Red= 652 Green= 573
2	Luminous MIN/TYP/MAX (mcd)	Red= N/A - 52 - N/A Green= N/A - 37 - N/A	Red= 32 - 50 - 100 Green= 32 - 50 - 100
3	Viewing Angle	120	140
4	Power Dissipation (mW)	100	75
5	Peak Forward Current Absolute (mA)	150	125
6	Storage Temperature Range (C)	-30C to +100C	-40C to +85C
7	Operating Temperature Range (C)	-25C to +85C	-40C to +80C
8	Forward Voltage MIN/TYP/MAX (V)	Red= N/A - 1.9 - 2.4 Green= N/A - 2.1 - 2.6	Red= N/A - 1.9 - 2.5 Green= N/A - 2.0 - 2.6
9	Dominant Wavelength (nm)	Red= N/A - N/A - N/A Green= N/A - N/A - N/A	Red= 630 - 639 - 650 Green= 565 - 572 - 576
10	Reflow Soldering Table	-	Revised
11	Forward Current (If) vs Forward Voltage (Vf) Graph	-	Revised

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Effective Date of Change: December 16, 2025

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

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