



# Customer Product/Process Change Notification

PCN # OES17062001\_59X

Issued Date: 6/12/2017

Issued By: Nick Oesterheld

Author: Nick Oesterheld

Change affects whole product family?  No

**Part #'s affected (See attached if entire product family is affected)**

See attached List

**Description of Change:**

Bi Color R/G LED and Y/G LED is being replaced with a brighter Low current die/chip version.

**Reason for Change:**

Existing Bi Color R/G and Y/G LEDs are EOL and more efficient Low current LED chip is being used.

**Properties of Old vs. Changed Product:**

See attached Specification comparison sheet

**Disposition of Old Product:**

Use until depleted.

Expected Implementation Date: JULY 28,2017

Last Time Buy Date: NOT APPLICABLE

Customer Feedback Expected by: N/A

**Additional Comments: (Include Potential Risks if Appropriate)**

There is no change in Part Form, Fit,Quality and Reliability. Replacement Parts are 4X Brighter Red, and 2X Brighter Green for R/G and 4X Brighter Yellow and 2X Brighter Green for Y/G.

**Supporting Qualification Data:**

Not Applicable

**Approved By:**

(Minimum of three approvals are required.)

Vice President of Operations: \_\_\_\_\_

Vice President of Sales OED/Signals: Matt Boudiette

Director of Customer Service: Kathy Smith

Vice President of Marketing: \_\_\_\_\_

Director of Quality: Angel Escamilla

NOTE: Expected Implementation date and Last Time Buy Date are estimated based on existing materials and consumption rates. Subject to change.

**AFFECTED PART NUMBERS USING THIS EOL R/G LED  
REPLACEMENT LED 2ma R/G  
597 MicroLED R/G Bi color LED**

5977701202F  
5977701202LF OBSOLETE USE 5977701202F  
5977701207F  
5977701207LF OBSOLETE USE 5977701207F

**591 Prism with R/G Bi color LED**

5913001002F  
5913001002HF  
5913001002SF  
5913001007F  
5913001007SF  
5913001013F  
5913001013HF  
5913001013SF  
5913001102F  
5913001102HF  
5913001102SF  
5913001107F  
5913001107HF  
5913001107SF  
5913001113F  
5913001113HF  
5913001113NSNF  
5913001113SF  
5913001812F  
5913001849F

**592 Bi Level Prism with R/G Bi color LED**

5923024302F  
5923024313F  
5923030302F  
5923030313F  
5923030820F  
5923030820SF  
5923031013F  
5923031302F  
5923031313F  
5923032302F  
5923032313F  
5923034302F  
5923034313F  
5923036302F  
5923036313F  
5923036822F  
5923036823F  
5923530302F  
5923530313F

**593 Tri Level Prism with R/G Bi Color LED**

593212130002F OBSOLETE USE 593212130302F  
593212130013F OBSOLETE USE 593212130313F  
593212130302F  
593212130313F  
593303030002F OBSOLETE USE 593303030302F  
593303030013F OBSOLETE USE 593303030313F  
593303030302F  
593303030313F

**AFFECTED PART NUMBERS USING THIS EOL Y/G LED  
REPLACEMENT LED 2ma Y/G  
597 MicroLED Y/G Bi-Color LED**

5977721202F  
5977721207F

**591 Prism with Y/G Bi Color LED**

5913101002F  
5913101002HF  
5913101002SF  
5913101007F  
5913101007HF  
5913101007SF  
5913101013F  
5913101013HF  
5913101013SF  
5913101102F  
5913101102HF  
5913101102SF  
5913101107F  
5913101107HF  
5913101107SF  
5913101113F  
5913101113HF  
5913101113SF

**592 Bi Level Prism with Y/G Bi color LED**

5922631302F  
5922631313F  
5922631812F  
5922631812SF  
5923031313F  
5923126302F  
5923126313F  
5923126816F  
5923126816SF  
5923131302F  
5923131313F  
5923131814F  
5923131814SF  
5923531302F  
5923531313F  
5923531313F

**593 Tri Level Prism with Y/G Bi Color LED**

593203120002F OBSOLETE USE 593203120302F  
593203120013F OBSOLETE USE 593203120313F  
593203120302F  
593203120313F  
593312020002F OBSOLETE USE 593312020302F  
593312020013F OBSOLETE USE 593312020313F  
593312020302F  
593312020313F  
593313131002F OBSOLETE USE 593313131302F  
593313131013F OBSOLETE USE 593313131313F  
593313131302F  
593313131313F

**LED COMPARISON TABLE:**

For SM PLCC-4 Red/Green Bi-ColorLED 597-7701-207F,-202F and replacement R/G 2ma LC P/N 597-7701-207F,-202F

LUMINOUS INTENSITY (mcd) RED  
 LUMINOUS INTENSITY (mcd) GREEN  
 FORWARD VOLTAGE (V) RED  
 FORWARD VOLTAGE (V) GREEN  
 PEAK WAVELENGTH (nm) RED  
 PEAK WAVELENGTH (nm) GREEN  
 DOMINANT WAVELENGTH (nm) RED  
 DOMINANT WAVELENGTH (nm) GREEN  
 VIEWING ANGLE 2 1/2 (deg)  
 REVERSE CURRENT (micro amps) Vr=12v

POWER DISSIPATION (mW) RED  
 POWER DISSIPATION (mW) GREEN  
 PEAK PULSE FORWARD CURRENT(mA)  
 CONTINUOUS FORWARD CURRENT (mA) MAX  
 DERATING LINEARLY FROM (mA/C°)  
 REVERSE VOLTAGE (IR=10 μA)  
 JUNCTION TEMP TJ  
 OPERATING TEMP. RANGE (C°)  
 STORAGE TEMP. RANGE (C°)  
 LEAD Reflow SOLDERING TEMP. (C°) Pb-Free (SnAgCu) Assembly

Surface Mount PLCC-2 Package size  
 LED EMITTING COLOR  
 LED EMITTING COLOR  
 LED EPOXY COLOR  
 LED LEADS  
 LED DIE TECHNOLOGY  
 Moisture Sensitivity Level

**EOL 5977701207F,-202F**  
**OPERATING CHARACTERISTICS @ 25° AMBIENT**

If	MIN	TYP	MAX
10	4.5	11.3	18
10	4.5	11.3	18
10	2	2	2.5
10	2	2	2.5
		635	
		572	
	622	628	634
	564	570	576
		120	
		0.01	10

**ABSOLUTE MAXIMUM RATINGS @ TA=25° C**

95
95
500
30
(40° C) 0.42
12
100
-40 to + 100
-40 to +100
260C -5C FOR 10 SEC min and 30 SEC Max

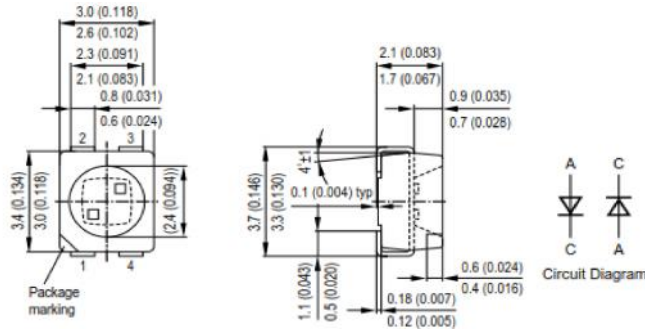
**PHYSICAL DIMENSIONS**

.138" (3.5mm) x .110"(2.8mm) x .075"(1.9mm)

RED  
 GREEN  
 CLEAR

Pb FREE RoHS  
 GaAlP

2



Low Current

**REPLACEMENT 597770x207F,-202F**  
**OPERATING CHARACTERISTICS @ 25° AMBIENT**

If	MIN	TYP	MAX
2	4.5	11.3	18
2	2.8	7	11.2
2	1.7	1.8	2.2
2	1.7	1.8	2.2
		643	
		572	
	624	630	636
	566	570	575
		120	
Vr=12v		0.01	10

**ABSOLUTE MAXIMUM RATINGS @ TA=25° C**

33
33
100
15
--
12
125
-40 to + 100
-40 to +100
260C -5C FOR 10 SEC min and 30 SEC Max

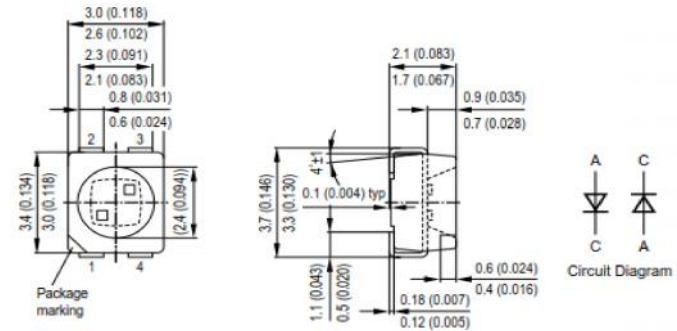
**PHYSICAL DIMENSIONS**

.138" (3.5mm) x .110"(2.8mm) x .075"(1.9mm)

RED  
 GREEN  
 CLEAR

Pb FREE RoHS  
 InGaAlP

2



**LED COMPARISON TABLE:**

For SM PLCC-4 Yellow/Green Bi-Color LED 597-7721-207F,-202F and replacement Y/G 2ma LC P/N 597-7721-207F,-202F

LUMINOUS INTENSITY (mcd) YELLOW  
 LUMINOUS INTENSITY (mcd) GREEN  
 FORWARD VOLTAGE (V) YELLOW  
 FORWARD VOLTAGE (V) GREEN  
 PEAK WAVELENGTH (nm) YELLOW  
 PEAK WAVELENGTH (nm) GREEN  
 DOMINANT WAVELENGTH (nm) YELLOW  
 DOMINANT WAVELENGTH (nm) GREEN  
 VIEWING ANGLE 2 1/2 (deg)  
 REVERSE CURRENT (micro amps) Vr=12v

POWER DISSIPATION (mW) YELLOW  
 POWER DISSIPATION (mW) GREEN  
 PEAK PULSE FORWARD CURRENT(mA)  
 CONTINUOUS FORWARD CURRENT (mA) MAX  
 DERATING LINEARLY FROM (mA/C°)  
 REVERSE VOLTAGE (IR=10 µA)  
 JUNCTION TEMP TJ  
 OPERATING TEMP. RANGE (C°)  
 STORAGE TEMP. RANGE (C°)  
 LEAD Reflow SOLDERING TEMP. (C°) Pb-Free (SnAgCu) Assembly

Surface Mount PLCC-2 Package size  
 LED EMITTING COLOR  
 LED EMITTING COLOR  
 LED EPOXY COLOR  
 LED LEADS  
 LED DIE TECHNOLOGY  
 Moisture Sensitivity Level

**EOL 5977721207F,-202F**

**OPERATING CHARACTERISTICS @ 25° AMBIENT**

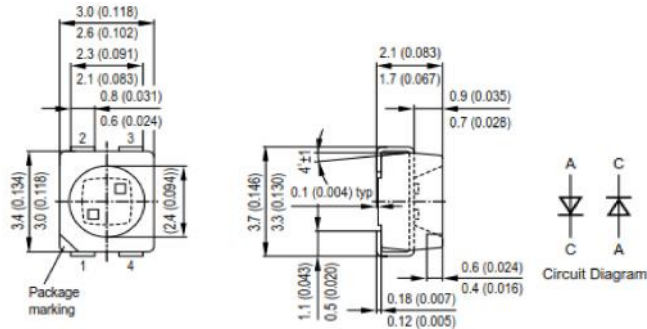
If	MIN	TYP	MAX
10	4.5	11.3	18
10	4.5	11.3	18
10	2	2.5	
10	2	2.5	
		635	
		572	
	580	587	595
	564	570	576
		120	
		0.01	10

**ABSOLUTE MAXIMUM RATINGS @ TA=25° C**

95
95
500
30
(40° C) 0.42
12
100
-40 to + 100
-40 to +100
260C -5C FOR 10 SEC min and 30 SEC Max

**PHYSICAL DIMENSIONS**

.138" (3.5mm) x .110"(2.8mm) x .075"(1.9mm)  
 YELLOW  
 GREEN  
 CLEAR  
 Pb FREE RoHS  
 GaAlP  
 2



Low Current

**REPLACEMENT 5977721207F,-202F**

**OPERATING CHARACTERISTICS @ 25° AMBIENT**

If	MIN	TYP	MAX
2	4.5	11.3	18
2	2.8	7	11.2
2	1.7	1.8	2.2
2	1.7	1.8	2.2
		591	
		572	
	580	587	595
	566	570	575
		120	
Vr=12v		0.01	10

**ABSOLUTE MAXIMUM RATINGS @ TA=25° C**

33
33
100
15
--
12
125
-40 to + 100
-40 to +100
260C -5C FOR 10 SEC min and 30 SEC Max

**PHYSICAL DIMENSIONS**

.138" (3.5mm) x .110"(2.8mm) x .075"(1.9mm)  
 YELLOW  
 GREEN  
 CLEAR  
 Pb FREE RoHS  
 InGaAlP  
 2

