



Product Change Notification

PCN # 106661
Issued Date: 6/23/2023
Issued By: Cheryll Santiago
Author: Cheryll Santiago

Change affects whole product family?	No
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Part #'s affected (See attached if entire product family is affected)

See attached Affected Part Number Sheet

Description of Change:

Replace outdated parts with the newest technologies and improved production techniques.

Reason for Change:

Old LED die is discontinued or older technology used on parts that have no demand in recent years.

Properties of Old vs. Changed Product:

See Comparison sheets

Disposition of Old Product:

Deplete existing Stock on hand.

Expected Implementation Date:	For orders placed after 7/7/2023	Last Time Buy Date:	21-Jul-23
Customer Feedback Expected by:	Not Applicable		

Additional Comments: (Include Potential Risks if Appropriate)

Supporting Qualification Data:

When Available upon request only.

Approved By:

(Minimum of three approvals are required.)

Vice President of Operations: _____
Vice President of Sales OED/Signals: _____
Director of Customer Service: _____
Vice President of Marketing: _____
Director of Quality: _____

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



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Current part #

5973222402F
5973222407F
5975004402F
5975004407F
5972002402NF
5972002407NF

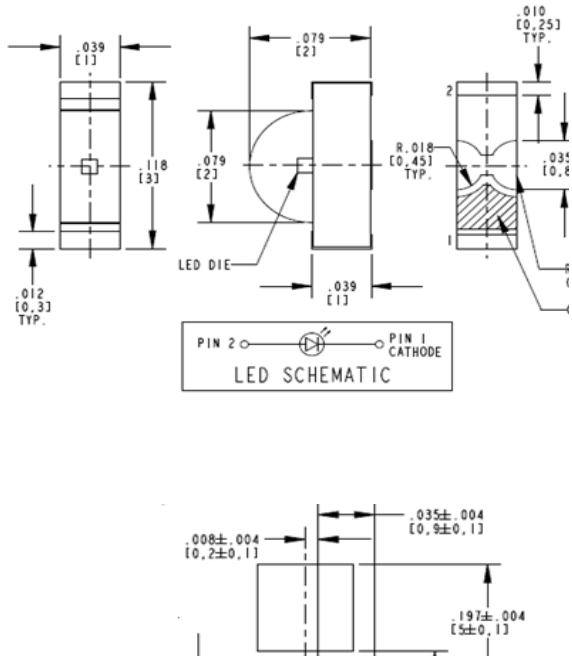
New part #

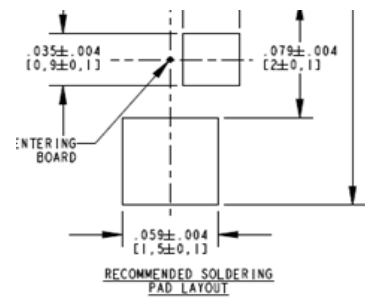
5973222402NF
5973222407NF
5975004402NF
5975004407NF
5972002602F
5972002607F

LED COMPARISON

P/N #1	PARAMETER	597-2002-402NF/-407NF Old Die		
PARAMETERS		OPERATING CHARACTERISTICS @ 25° AM		
		If	MIN	TYP
	LUMINOUS INTENSITY (mcd)	20mA	25	50
	FORWARD VOLTAGE (V)	20mA		1.9
	DOMINANT WAVELENGTH (nm)			626
	VIEWING ANGLE 2θ1/2 (deg)	130		
	REVERSE CURRENT (uA)	100uA (Vr=5V)		
RATING / CHARACTERISTICS		ABSOLUTE MAXIMUM RATINGS @ TA=25°C		
	POWER DISSIPATION (mW)	81		
	PEAK PULSE FORWARD CURRENT(mA)	100		
	CONTINUOUS FORWARD CURRENT (mA)	30		
	REVERSE VOLTAGE	5V		
	OPERATING TEMP. RANGE (°C)	-40C to +85C		
	STORAGE TEMP. RANGE (°C)	-40C to +100C		
PART SPEC / DIMENSION		260 °C for 5 seconds		
	LEAD Reflow SOLDERING TEMP. (°C)			
	Package Size	3.0 x 1.0 x 2.0mm Right Angle		
	LED EMITTING COLOR	Red		
	LED EPOXY COLOR	Water Clear		
	LED LEADS	SMD		
	LED DIE TECHNOLOGY	AlInGaP		
P/N #2	MOISTURE SENSITIVITY LEVEL	3		
	Packaging	3000 pcs / Reel		
P/N #2	PARAMETER	597-2212-402NF/-407NF Old Die		
PARAMETERS		OPERATING CHARACTERISTICS @ 25° AM		
		If	MIN	TYP
	LUMINOUS INTENSITY (mcd)	20mA	68	150
	FORWARD VOLTAGE (V)	20mA		1.9
	DOMINANT WAVELENGTH (nm)		609	
	VIEWING ANGLE 2θ1/2 (deg)	130		
	REVERSE CURRENT (uA)	100uA (Vr=5V)		
RATING / CHARACTERISTICS		ABSOLUTE MAXIMUM RATINGS @ TA=25°C		
	POWER DISSIPATION (mW)	81		
	PEAK PULSE FORWARD CURRENT(mA)	100		
	CONTINUOUS FORWARD CURRENT (mA)	30		

CHARACTERISTICS	REVERSE VOLTAGE	5V		
	OPERATING TEMP. RANGE (C°)	-40C to +85C		
	STORAGE TEMP. RANGE (C°)	-40C to +100C		
	LEAD Reflow SOLDERING TEMP. (C°)	260 °C for 5 seconds		
PART SPEC / DIMENSION	Package Size	3.0 x 1.0 x 2.0mm Right Angle		
	LED EMITTING COLOR	Orange		
	LED EPOXY COLOR	Water Clear		
	LED LEADS	SMD		
	LED DIE TECHNOLOGY	AlInGaP		
	MOISTURE SENSITIVITY LEVEL	3		
	Packaging	3000 pcs / Reel		
P/N #3	PARAMETER	597-2311-402F/-407F Old Die		
PARAMETERS		OPERATING CHARACTERISTICS @ 25° AM		
		If	MIN	TYP
	LUMINOUS INTENSITY (mcd)	20mA	2.6	5.2
	FORWARD VOLTAGE (V)	20mA		2.1
	DOMINANT WAVELENGTH (nm)			567
	VIEWING ANGLE 2θ1/2 (deg)	130		
	REVERSE CURRENT (uA)	100uA (Vr=4V)		
RATING / CHARACTERISTICS		ABSOLUTE MAXIMUM RATINGS @ TA=25°		
	POWER DISSIPATION (mW)	70		
	PEAK PULSE FORWARD CURRENT(mA)	60		
	CONTINUOUS FORWARD CURRENT (mA)	25		
	REVERSE VOLTAGE	4V		
	OPERATING TEMP. RANGE (C°)	-40C to +85C		
	STORAGE TEMP. RANGE (C°)	-40C to +100C		
	LEAD Reflow SOLDERING TEMP. (C°)	260 °C for 5 seconds		
PART SPEC / DIMENSION	Package Size	3.0 x 1.0 x 2.0mm Right Angle		
	LED EMITTING COLOR	Green		
	LED EPOXY COLOR	Water Clear		
	LED LEADS	SMD		
	LED DIE TECHNOLOGY	GaP		
	MOISTURE SENSITIVITY LEVEL	3		
	Packaging	3000 pcs / Reel		
P/N #4	PARAMETER	597-2222-402F/-407F Old Die		
PARAMETERS		OPERATING CHARACTERISTICS @ 25° AM		
		If	MIN	TYP
	LUMINOUS INTENSITY (mcd)	20mA	25	65

METERS	FORWARD VOLTAGE (V)	20mA		1.9
	DOMINANT WAVELENGTH (nm)			590
	VIEWING ANGLE 2θ1/2 (deg)	130		
	REVERSE CURRENT (uA)	100uA (Vr=5V)		
RATING / CHARACTERISTICS		ABSOLUTE MAXIMUM RATINGS @ TA=25°C		
	POWER DISSIPATION (mW)	81		
	PEAK PULSE FORWARD CURRENT(mA)	100		
	CONTINUOUS FORWARD CURRENT (mA)	30		
	REVERSE VOLTAGE	5V		
	OPERATING TEMP. RANGE (C°)	-40C to +85C		
	STORAGE TEMP. RANGE (C°)	-40C to +100C		
	LEAD Reflow SOLDERING TEMP. (C°)	260 °C for 5 seconds		
PART SPEC / DIMENSION	Package Size	3.0 x 1.0 x 2.0mm Right Angle		
	LED EMITTING COLOR	Yellow		
	LED EPOXY COLOR	Water Clear		
	LED LEADS	SMD		
	LED DIE TECHNOLOGY	AlInGaP		
	MOISTURE SENSITIVITY LEVEL	3		
	Packaging	3000 pcs / Reel		
		Old Package Drawing  The drawing includes the following dimensions and features: Top View: Overall width .039 [1], height .118 [3], and a central square feature with side .012 [0.3] TYP. Side View: Total height .079 [2], with a curved top profile. Cross-section: Shows the internal structure with dimensions: .010 [0.25] TYP. for the top layer, .035 [0.8] for the die attach, and .039 [1] for the base. LED Schematic: A symbol for an LED with PIN 2 labeled as CATHODE and PIN 1 as the anode. Bottom View: Shows the footprint with dimensions: .008±.004 [0.2±0.1] for the lead width, .035±.004 [0.9±0.1] for the lead spacing, and .197±.004 [5±0.1] for the total length.		



TABLE

597-2002-602F/-607F New Die				
AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
	20mA	71	125	180
2.4	20mA		2.0	2.4
			631	
	130			
	10uA (Vr=5V)			
25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	75			
	80			
	30			
	5V			
	-55C to +85C			
	-55C to +85C			
	260 °C for 5 seconds			
	3.0 x 1.0 x 2.0mm Right Angle			
	Red			
	Water Clear			
	SMD			
	AlInGaP			
	3			
	3000 pcs / Reel			

597-2211-602F/-607F New Die				
AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
	20mA	71	125	180
2.4	20mA		2.0	2.4
			605	
	130			
	10uA (Vr=5V)			
25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	75			
	80			
	30			

	5V
	-55C to +85C
	-55C to +85C
	260 °C for 5 seconds

	3.0 x 1.0 x 2.0mm Right Angle
	Orange
	Water Clear
	SMD
	AllnGaP
	3
	3000 pcs / Reel

	597-2501-602FI-607F New Die
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AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
	20mA	28	50	71
2.8	20mA		2.0	2.4
			572	
	130			
	10uA (Vr=5V)			

25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	75			
	80			
	30			
	5V			
	-55C to +85C			
	-55C to +85C			
	260 °C for 5 seconds			

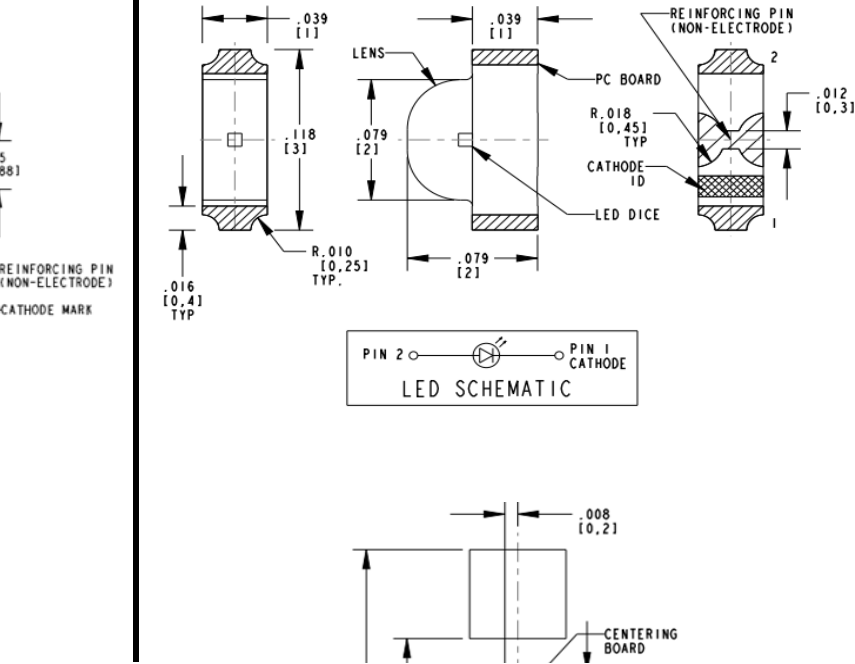
	3.0 x 1.0 x 2.0mm Right Angle
	Green
	Water Clear
	SMD
	AllnGaP
	3
	3000 pcs / Reel

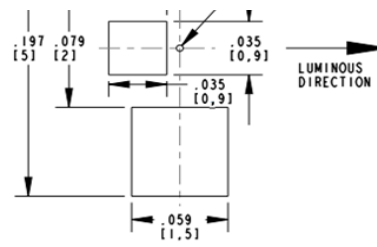
	597-2222-602F/607F New Die
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AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
	20mA	71	125	180

2.4	20mA	1.8	2.0	2.4
			589	
	130			
	10uA (Vr=5V)			
25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	75			
	80			
	30			
	5V			
	-55C to +85C			
	-55C to +85C			
	260 °C for 5 seconds			
	3.0 x 1.0 x 2.0mm Right Angle			
	Yellow			
	Water Clear			
	SMD			
	AlInGaP			
	3			
	3000 pcs / Reel			

New Package Drawing





RECOMMENDED SOLDERING
PAD LAYOUT

LED COMPARISON

P/N #1	PARAMETER	597-5004-402F/-407F Old Die		
PARAMETERS		OPERATING CHARACTERISTICS @ 25° AM		
		If	MIN	TYP
	LUMINOUS INTENSITY (mcd)	20mA	25	50
	FORWARD VOLTAGE (V)	20mA		1.9
	DOMINANT WAVELENGTH (nm)			626
	VIEWING ANGLE 2θ1/2 (deg)	152		
	REVERSE CURRENT (uA)	100uA (Vr=5V)		
RATING / CHARACTERISTICS		ABSOLUTE MAXIMUM RATINGS @ TA=25°C		
	POWER DISSIPATION (mW)	81		
	PEAK PULSE FORWARD CURRENT(mA)	100		
	CONTINUOUS FORWARD CURRENT (mA)	30		
	REVERSE VOLTAGE	5V		
	OPERATING TEMP. RANGE (C°)	-40C to +85C		
	STORAGE TEMP. RANGE (C°)	-40C to +100C		
PART SPEC / DIMENSION		260 °C for 5 seconds		
	Package Size	1.6 x 0.8 x 0.7mm (0603)		
	LED EMITTING COLOR	Red		
	LED EPOXY COLOR	White Diffused		
	LED LEADS	SMD		
	LED DIE TECHNOLOGY	AlInGaP		
	MOISTURE SENSITIVITY LEVEL	3		
	Packaging	4000 pcs / Reel		
P/N #2	PARAMETER	597-5213-402F/-407F Old Die		
PARAMETERS		OPERATING CHARACTERISTICS @ 25° AM		
		If	MIN	TYP
	LUMINOUS INTENSITY (mcd)	20mA	25	65
	FORWARD VOLTAGE (V)	20mA		1.9
	DOMINANT WAVELENGTH (nm)			605
	VIEWING ANGLE 2θ1/2 (deg)	152		
	REVERSE CURRENT (uA)	100uA (Vr=5V)		
RATING / CHARACTERISTICS		ABSOLUTE MAXIMUM RATINGS @ TA=25°C		
	POWER DISSIPATION (mW)	81		
	PEAK PULSE FORWARD CURRENT(mA)	100		
	CONTINUOUS FORWARD CURRENT (mA)	30		
	REVERSE VOLTAGE	5V		

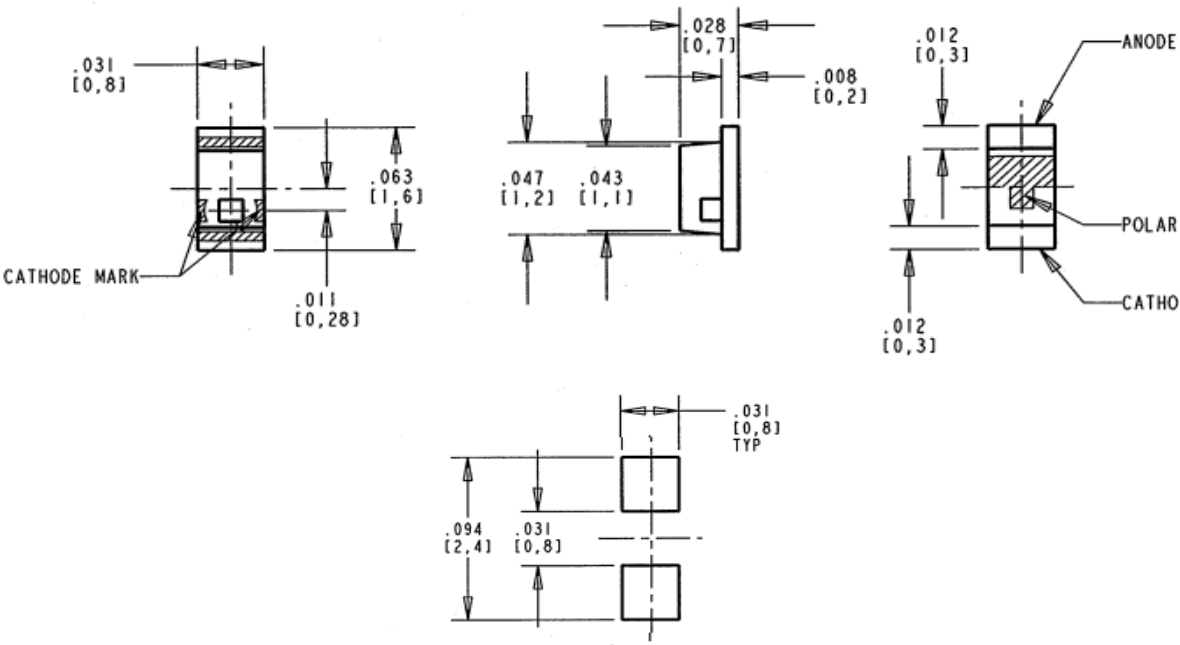
CHARACTERISTICS	OPERATING TEMP. RANGE (C°)		-40C to +85C		
	STORAGE TEMP. RANGE (C°)		-40C to +100C		
	LEAD Reflow SOLDERING TEMP. (C°)		260 °C for 5 seconds		
PART SPEC / DIMENSION	Package Size		1.6 x 0.8 x 0.7mm (0603)		
	LED EMITTING COLOR		Orange		
	LED EPOXY COLOR		White Diffused		
	LED LEADS		SMD		
	LED DIE TECHNOLOGY		AlInGaP		
	MOISTURE SENSITIVITY LEVEL		3		
	Packaging		4000 pcs / Reel		
P/N #3	PARAMETER		597-5223-402F/-407F Old Die		
PARAMETERS			OPERATING CHARACTERISTICS @ 25° AM		
			If	MIN	TYP
	LUMINOUS INTENSITY (mcd)		20mA	25	65
	FORWARD VOLTAGE (V)		20mA		1.9
	DOMINANT WAVELENGTH (nm)				590
	VIEWING ANGLE 2θ1/2 (deg)		152		
	REVERSE CURRENT (uA)		100uA (Vr=5V)		
RATING / CHARACTERISTICS			ABSOLUTE MAXIMUM RATINGS @ TA=25° AM		
	POWER DISSIPATION (mW)		81		
	PEAK PULSE FORWARD CURRENT(mA)		100		
	CONTINUOUS FORWARD CURRENT (mA)		30		
	REVERSE VOLTAGE		5V		
	OPERATING TEMP. RANGE (C°)		-40C to +85C		
	STORAGE TEMP. RANGE (C°)		-40C to +100C		
	LEAD Reflow SOLDERING TEMP. (C°)		260 °C for 5 seconds		
PART SPEC / DIMENSION	Package Size		1.6 x 0.8 x 0.7mm (0603)		
	LED EMITTING COLOR		Yellow		
	LED EPOXY COLOR		White Diffused		
	LED LEADS		SMD		
	LED DIE TECHNOLOGY		AlInGaP		
	MOISTURE SENSITIVITY LEVEL		3		
	Packaging		4000 pcs / Reel		
P/N #4	PARAMETER		597-5412-402F/-407F Old Die		
PARAMETERS			OPERATING CHARACTERISTICS @ 25° AM		
			If	MIN	TYP
	LUMINOUS INTENSITY (mcd)		20mA	7	11.7
	FORWARD VOLTAGE (V)		20mA		2.1

PARAMETERS	DOMINANT WAVELENGTH (nm)			572
	VIEWING ANGLE 2θ1/2 (deg)	152		
	REVERSE CURRENT (uA)	100uA (Vr=4V)		
RATING / CHARACTERISTICS		ABSOLUTE MAXIMUM RATINGS @ TA=25°C		
	POWER DISSIPATION (mW)	70		
	PEAK PULSE FORWARD CURRENT(mA)	60		
	CONTINUOUS FORWARD CURRENT (mA)	25		
	REVERSE VOLTAGE	4V		
	OPERATING TEMP. RANGE (C°)	-30C to +85C		
	STORAGE TEMP. RANGE (C°)	-40C to +100C		
	LEAD Reflow SOLDERING TEMP. (C°)	260 °C for 5 seconds		
PART SPEC / DIMENSION	Package Size	1.6 x 0.8 x 0.7mm (0603)		
	LED EMITTING COLOR	Yellow-Green		
	LED EPOXY COLOR	White Diffused		
	LED LEADS	SMD		
	LED DIE TECHNOLOGY	GaP		
	MOISTURE SENSITIVITY LEVEL	3		
	Packaging	4000 pcs / Reel		
P/N #5	PARAMETER	597-5312-402NF/-407NF Old Die		
PARAMETERS		OPERATING CHARACTERISTICS @ 25° AN		
		If	MIN	TYP
	LUMINOUS INTENSITY (mcd)	20mA	4.5	
	FORWARD VOLTAGE (V)	20mA		2.1
	DOMINANT WAVELENGTH (nm)		565	567
	VIEWING ANGLE 2θ1/2 (deg)	152		
	REVERSE CURRENT (uA)	100uA (Vr=4V)		
RATING / CHARACTERISTICS		ABSOLUTE MAXIMUM RATINGS @ TA=25°C		
	POWER DISSIPATION (mW)	84		
	PEAK PULSE FORWARD CURRENT(mA)	70		
	CONTINUOUS FORWARD CURRENT (mA)	30		
	REVERSE VOLTAGE	4V		
	OPERATING TEMP. RANGE (C°)	-40C to +100C		
	STORAGE TEMP. RANGE (C°)	-40C to +120C		
	LEAD Reflow SOLDERING TEMP. (C°)	260 °C for 5 seconds		
PART DIM	Package Size	1.6 x 0.8 x 0.7mm (0603)		
	LED EMITTING COLOR	Green		
	LED EPOXY COLOR	Clear Diffused		

EXTENSION / SPEC

LED LEADS	SMD
LED DIE TECHNOLOGY	GaP
MOISTURE SENSITIVITY LEVEL	3
Packaging	4000 pcs / Reel

OLD DRAWING



SOLDER PAD LAYOUT

TABLE

	597-5004-402NF/-407NF New Die			
AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
	20mA	68	91	120
2.4	20mA		1.9	2.4
			626	
	140			
	10uA (Vr=5V)			
25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	78			
	100			
	30			
	5V			
	-40C to +100C			
	-40C to +105C			
	260 °C for 5 seconds			
	1.6 x 0.8 x 0.7mm (0603)			
	Red			
	White Diffused			
	SMD			
	AlGaInP			
	3			
	4000 pcs / Reel			

	597-5213-402NF/-407NF New Die			
AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
	20mA	82	110	150
2.4	20mA		1.9	2.4
			605	
	140			
	10uA (Vr=5V)			
25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	78			
	100			
	30			
	5V			

	-40C to +100C
	-40C to +105C
	260 °C for 5 seconds
	1.6 x 0.8 x 0.7mm (0603)
	Orange
	White Diffused
	SMD
	AlGaInP
	3
	4000 pcs / Reel

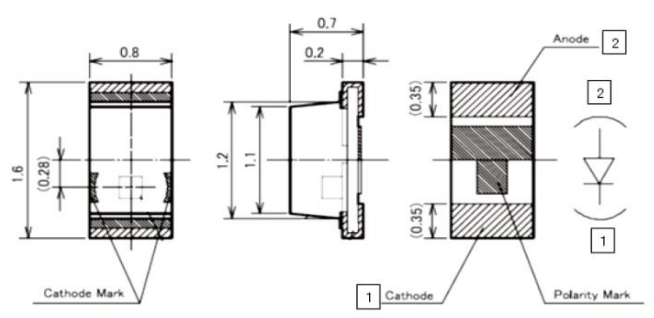
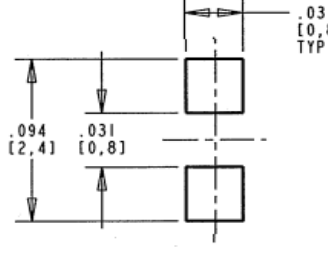
	597-5223-402NF/-407NF New Die			
AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
	20mA	56	75	100
2.4	20mA		1.9	2.4
			590	
	140			
	10uA (Vr=5V)			

25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	78			
	100			
	30			
	5V			
	-40C to +100C			
	-40C to +105C			
	260 °C for 5 seconds			

	1.6 x 0.8 x 0.7mm (0603)
	Yellow
	White Diffused
	SMD
	AlGaInP
	3
	4000 pcs / Reel

	597-5412-402NF/-407NF New Die			
AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
	20mA	33	43	56
2.8	20mA		1.9	2.4

			572	
	140			
	10uA (Vr=5V)			
25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	78			
	100			
	30			
	5V			
	-40C to +100C			
	-40C to +105C			
	260 °C for 5 seconds			
	1.6 x 0.8 x 0.7mm (0603)			
	Yellow-Green			
	White Diffused			
	SMD			
	AlGaInP			
	3			
	4000 pcs / Reel			
	598-8070-102F/-107F New Die			
AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
15.1	20mA	12	28	43
2.8	20mA	1.8	2.1	2.4
572		562	566	570
	140			
	10uA (Vr=5V)			
25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	72			
	60			
	30			
	5V			
	-40C to +100C			
	-40C to +100C			
	260 °C for 5 seconds			
	1.6 x 0.8 x 0.7mm (0603)			
	Green			
	Water Clear			

	SMD
	AlInGaP
	3
	4000 pcs / Reel
QTY MARK CODE	NEW DRAWING  The top view shows a rectangular package with a width of 0.8 and a height of 1.6. A central square area has a width of 0.28. The side view shows a height of 1.2 and a base width of 0.7. The cross-sectional view shows a central square area with a width of 0.2 and a height of 0.35. The package is labeled with 'Cathode Mark' and 'Anode' (2). A polarity symbol is shown with a triangle pointing to the cathode (1) and a circle pointing to the anode (2).  The solder pad layout shows two rectangular pads. The top pad has a width of 0.094 [2,4] and a height of 0.031 [0,8]. The bottom pad has a width of 0.031 [0,8] and a height of 0.031 [0,8]. The pads are separated by a gap of 0.031 [0,8]. SOLDER PAD LAYOUT

LED COMPARISON				
P/N #1	PARAMETER	597-3222-402F/-407F Old Die		
PARAMETERS		OPERATING CHARACTERISTICS @ 25° A		
		If	MIN	TYP
	LUMINOUS INTENSITY (mcd)	20mA	25	65
	FORWARD VOLTAGE (V)	20mA		1.9
	DOMINANT WAVELENGTH (nm)			590
	VIEWING ANGLE 2ø1/2 (deg)	150		
	REVERSE CURRENT (uA)	100uA (Vr=5V)		
RATING / CHARACTERISTICS		ABSOLUTE MAXIMUM RATINGS @ TA		
	POWER DISSIPATION (mW)	81		
	PEAK PULSE FORWARD CURRENT(mA)	100		
	CONTINUOUS FORWARD CURRENT (mA)	30		
	REVERSE VOLTAGE	5V		
	OPERATING TEMP. RANGE (C°)	-40C to +85C		
	STORAGE TEMP. RANGE (C°)	-40C to +100C		
	LEAD Reflow SOLDERING TEMP. (C°)	260 °C for 5 seconds		
PART SPEC / DIMENSION	Package Size	2.0 x 1.25 x 0.8mm (0805)		
	LED EMITTING COLOR	Yellow		
	LED EPOXY COLOR	White Diffused		
	LED LEADS	SMD		
	LED DIE TECHNOLOGY	AlInGaP		
	MOISTURE SENSITIVITY LEVEL	3		
	Packaging	4000 pcs / Reel		
P/N #2	PARAMETER	597-3003-402F/-407F Old Die		
PARAMETERS		OPERATING CHARACTERISTICS @ 25° A		
		If	MIN	TYP
	LUMINOUS INTENSITY (mcd)	20mA	25	50
	FORWARD VOLTAGE (V)	20mA		1.9
	DOMINANT WAVELENGTH (nm)			626
	VIEWING ANGLE 2ø1/2 (deg)	150		
	REVERSE CURRENT (uA)	100uA (Vr=5V)		
RATING / CHARACTERISTICS		ABSOLUTE MAXIMUM RATINGS @ TA		
	POWER DISSIPATION (mW)	81		
	PEAK PULSE FORWARD CURRENT(mA)	100		
	CONTINUOUS FORWARD CURRENT (mA)	30		

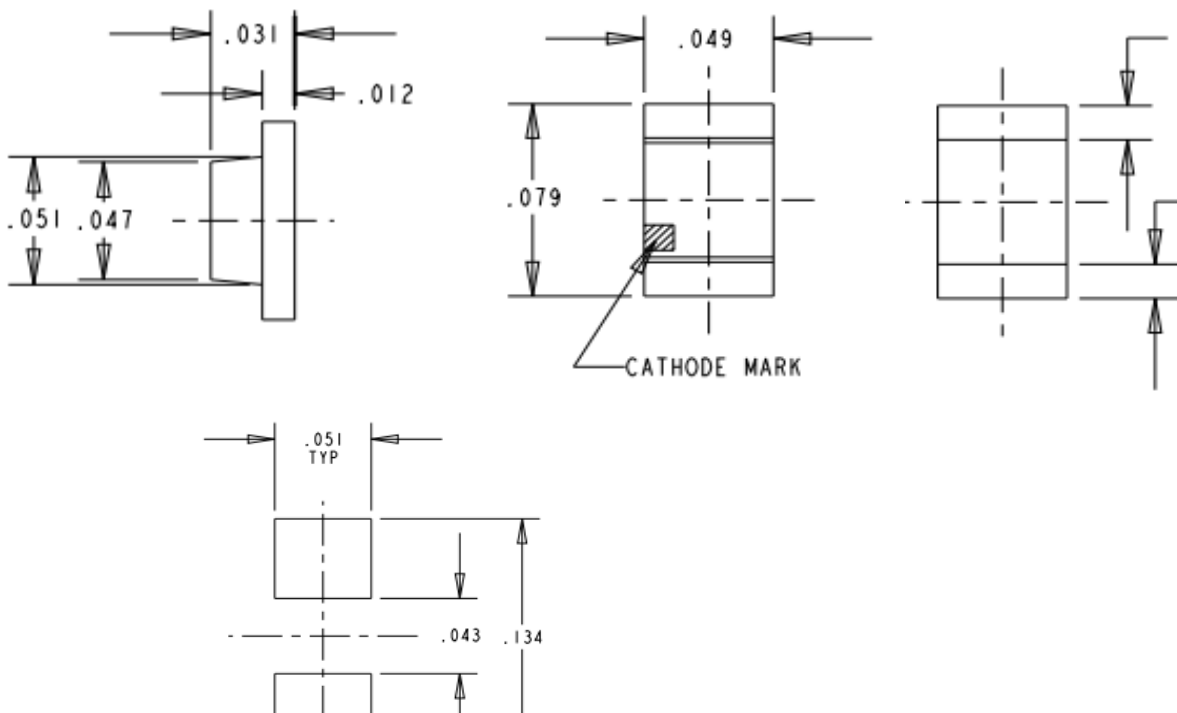
CHARACTERISTICS	REVERSE VOLTAGE	5V
	OPERATING TEMP. RANGE (C°)	-40C to +85C
	STORAGE TEMP. RANGE (C°)	-40C to +100C
	LEAD Reflow SOLDERING TEMP. (C°)	260 °C for 5 seconds
PART SPEC / DIMENSION	Package Size	2.0 x 1.25 x 0.8mm (0805)
	LED EMITTING COLOR	Red
	LED EPOXY COLOR	White Diffused
	LED LEADS	SMD
	LED DIE TECHNOLOGY	AlInGaP
	MOISTURE SENSITIVITY LEVEL	3
	Packaging	4000 pcs / Reel

P/N #3	PARAMETER	597-5311-402F/-407F Old Die		
PARAMETERS		OPERATING CHARACTERISTICS @ 25° A		
		If	MIN	TYP
	LUMINOUS INTENSITY (mcd)	20mA	3.8	6.4
	FORWARD VOLTAGE (V)	20mA		2.1
	DOMINANT WAVELENGTH (nm)			567
	VIEWING ANGLE 2θ1/2 (deg)	150		
	REVERSE CURRENT (uA)	100uA (Vr=4V)		
RATING / CHARACTERISTICS		ABSOLUTE MAXIMUM RATINGS @ TA		
	POWER DISSIPATION (mW)	70		
	PEAK PULSE FORWARD CURRENT(mA)	60		
	CONTINUOUS FORWARD CURRENT (mA)	25		
	REVERSE VOLTAGE	4V		
	OPERATING TEMP. RANGE (C°)	-30C to +85C		
	STORAGE TEMP. RANGE (C°)	-40C to +100C		
	LEAD Reflow SOLDERING TEMP. (C°)	260 °C for 5 seconds		
PART SPEC / DIMENSION	Package Size	2.0 x 1.25 x 0.8mm (0805)		
	LED EMITTING COLOR	Green		
	LED EPOXY COLOR	White Diffused		
	LED LEADS	SMD		
	LED DIE TECHNOLOGY	GaP		
	MOISTURE SENSITIVITY LEVEL	3		
	Packaging	4000 pcs / Reel		

P/N #4	PARAMETER	597-5411-402F/407F Old Die		
PARAMETERS		OPERATING CHARACTERISTICS @ 25° A		
		If	MIN	TYP
	LUMINOUS INTENSITY (mcd)	20mA	7	11.7

METERS	FORWARD VOLTAGE (V)	20mA		2.1
	DOMINANT WAVELENGTH (nm)			572
	VIEWING ANGLE 2θ1/2 (deg)	150		
	REVERSE CURRENT (uA)	100uA (Vr=4V)		
RATING / CHARACTERISTICS		ABSOLUTE MAXIMUM RATINGS @ TA		
	POWER DISSIPATION (mW)	70		
	PEAK PULSE FORWARD CURRENT(mA)	60		
	CONTINUOUS FORWARD CURRENT (mA)	25		
	REVERSE VOLTAGE	4V		
	OPERATING TEMP. RANGE (C°)	-30C to +85C		
	STORAGE TEMP. RANGE (C°)	-40C to +100C		
	LEAD Reflow SOLDERING TEMP. (C°)	260 °C for 5 seconds		
PART SPEC / DIMENSION	Package Size	2.0 x 1.25 x 0.8mm (0805)		
	LED EMITTING COLOR	Yellow-Green		
	LED EPOXY COLOR	White Diffused		
	LED LEADS	SMD		
	LED DIE TECHNOLOGY	GaP		
	MOISTURE SENSITIVITY LEVEL	3		
	Packaging	4000 pcs / Reel		

OLD DRAWING





SOLDER PAD LAYOUT

TABLE

597-3222-402NF/-407NF New Die				
AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
105	20mA	68	91	120
2.4	20mA		1.9	2.4
			590	
	140			
	10uA (Vr=5V)			
=25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	78			
	100			
	30			
	5V			
	-40C to +100C			
	-40C to +105C			
	260 °C for 5 seconds			
	2.0 x 1.25 x 0.8mm (0805)			
	Yellow			
	White Diffused			
	SMD			
	AlGaInP			
	3			
	4000 pcs / Reel			

597-3003-402NF/407NF New Die				
AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
75	20mA	68	91	120
2.4	20mA		1.9	2.4
			626	
	140			
	10uA (Vr=5V)			
=25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	78			
	100			
	30			

	5V
	-40C to +100C
	-40C to +105C
	260 °C for 5 seconds
	2.0 x 1.25 x 0.8mm (0805)
	Red
	White Diffused
	SMD
	AlGaInP
	3
	4000 pcs / Reel

	597-5311-402NF/-407NF New Die			
AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
9	20mA	10		22
2.8	20mA		1.9	2.4
			562	
	140			
	10uA (Vr=5V)			

=25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	78			
	100			
	30			
	5V			
	-40C to +100C			
	-40C to +105C			
	260 °C for 5 seconds			

	2.0 x 1.25 x 0.8mm (0805)
	Green
	White Diffused
	SMD
	AlGaInP
	3
	4000 pcs / Reel

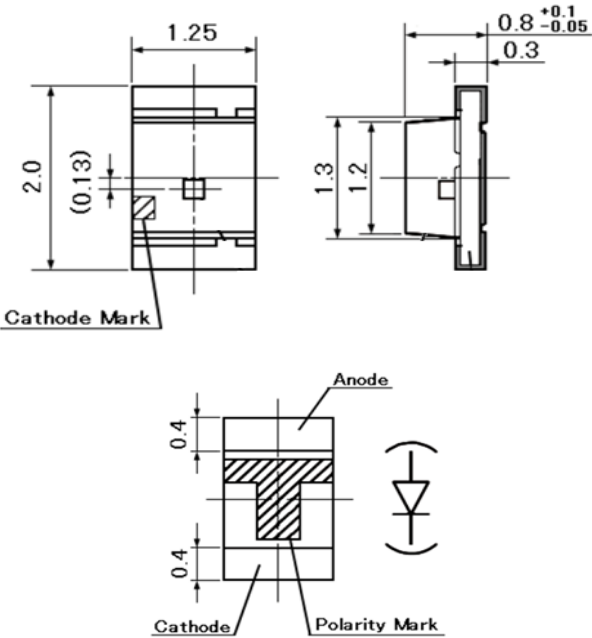
	597-5411-402NF/407NF New Die			
AMBIENT	OPERATING CHARACTERISTICS @ 25° AMBIENT			
MAX	If	MIN	TYP	MAX
16.4	20mA	33	43	56

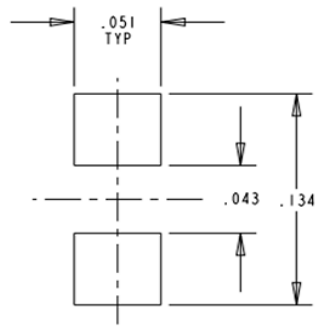
2.8	20mA		1.9	2.4
			572	
	140			
	100uA (Vr=5V)			
=25° C	ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
	78			
	100			
	30			
	5V			
	-40C to +100C			
	-40C to +105C			
	260 °C for 5 seconds			
	2.0 x 1.25 x 0.8mm (0805)			
	Yellow-Green			
	White Diffused			
	SMD			
	AlGaInP			
	3			
	4000 pcs / Reel			

NEW DRAWING

014

- .014





SOLDER PAD LAYOUT

AFFECTED PART NUMBERS OBSOLETE and NEW REPLACEMENT PART NUMBERS

597 SMD LED 1208 Right Angle, Single Color

OBSOLETE P/N	DESCRIPTION	USE NEW P/N	DESCRIPTION
597-2002-402NF/-407NF	SMD 1208 RT ANG Red Sample Strip / 7" REEL	597-2002-602F/-607F	SMD 1208 RT ANG 630nm Red Sample Strip / 7" Reel
597-2111-402F/-407F	SMD 1208 RT ANG Red Sample Strip / 7" REEL	No Replacement	
597-2212-402NF/-407NF	SMD 1208 RT ANG Orange Sample Strip / 7" REEL	597-2211-602F/-607F	SMD 1208 RT ANG Orange Hi-Br Sample Strip / 7" Reel
597-2222-402F/-407F	SMD 1208 RT ANG Yellow Sample Strip / 7" REEL	597-2222-602F/607F	SMD 1208 RT ANG Yellow Hi-Br Sample Strip / 7" Reel
597-2311-402F/-407F	SMD 1208 RT ANG Green Sample Strip / 7" REEL	597-2501-602F/-607F	SMD 1208 RT ANG Yellow-Green Hi-Br Sample Strip / 7" Reel
597-2401-402F/-407F	SMD 1208 RT ANG Yellow Sample Strip / 7" REEL	No Replacement	

597 SMD LED 0603, Single Color

OBSOLETE P/N	DESCRIPTION	USE NEW P/N	DESCRIPTION
597-5112-402F/-407F	SMD LED 0603 Red Sample Strip / 7" REEL	No Replacement	
597-5203-402F/-407F	SMD LED 0603 Orange Sample Strip / 7" REEL	No Replacement	

597 SMD LED 0805, Single Color

OBSOLETE P/N	DESCRIPTION	USE NEW P/N	DESCRIPTION
597-5111-402F/-407F	SMD LED 0805 Red Sample Strip / 7" REEL	No Replacement	
597-5202-402F/-407F	SMD LED 0805 Orange Sample Strip / 7" REEL	No Replacement	

AFFECTED PART NUMBERS - LED SPEC CHANGE

597 SMD LED 0603, Single Color

OBSOLETE P/N	DESCRIPTION	USE NEW P/N	DESCRIPTION
597-5004-402F/-407F	SMD LED 0603 Yellow Sample Strip / 7" REEL	597-5004-402NF/-407NF	SM 0603 RED 626nm Sample Strip / 7" REEL
597-5213-402F/-407F	SMD LED 0603 Orange Sample Strip / 7" REEL	597-5213-402NF/-407NF	SM 0603 ORANGE 605nm Sample Strip / 7" REEL
597-5223-402F/-407F	SMD LED 0603 Amber Sample Strip / 7" REEL	597-5223-402NF/-407NF	SM 0603 YELLOW 590nm Sample Strip / 7" REEL
597-5312-402NF/-407NF	SMD LED 0603 Green Sample Strip / 7" REEL	598-8070-102F/107F	SM LED 0603 ALLGAP GREEN Sample Strip / 7" REEL
597-5412-402F/-407F	SMD LED 0603 Yellow-Green Sample Strip / 7" REEL	597-5412-402NF/-407NF	SM 0603 YELLOW-GREEN Sample Strip / 7" REEL

597 SMD LED 0805, Single Color

OBSOLETE P/N	DESCRIPTION	USE NEW P/N	DESCRIPTION
597-3222-402F/-407F	SMD LED 0805 Yellow Sample Strip / 7" REEL	597-3222-402NF/-407NF	SM 0805 YELLOW 590nm Sample Strip / 7" REEL
597-3003-402F/-407F	SMD LED 0805 Red Sample Strip / 7" REEL	597-3003-402NF/-407NF	SM 0805 RED 626nm Sample Strip / 7" REEL
597-5311-402F/-407F	SMD LED 0805 Green Sample Strip / 7" REEL	597-5311-402NF/-407NF	SM 0805 YELLOW-GREEN 562nm Sample Strip / 7" REEL
597-5411-402F/-407F	SMD LED 0805 Yellow-Green Sample Strip / 7" REEL	597-5411-402NF/-407NF	SM 0805 YELLOW-GREEN 575nm Sample Strip / 7" REEL