

Customer Product/Process Change Notification

PCN # OES15040601_55X_561

Issued Date: 4/6/2015

Issued By: Patrick Farrell

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Change affects whole product family? No

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

5219724F, 5593201001F, 5593201003F, 5593201007F, 5593201023F, 5593201027F, 550-3104F, 5503104004F, 5503105003F, 5503105004F, 550-3107F, 5503107002F, 5503107004F, 5503107010F, 5503108F, 5503110F, 5520742F, 5520744F, 5520744010F, 5520794810F, 5613101050F, 5613101060F, 5613101070F, 5613101080F, 5613101090F, 5613101100F, 559-0001-820F

Description of Change:

New AllnGaP die used in LEDs instead of GaAsP/GaP. New parts will be brighter (comparison table below). New LEDs are form, fit, function replacements

Reason for Change:

LEDs Die AllnGaP is getting brighter due to the demand for higher brightness LED technology

Properties of Old vs. Changed Product:

See attached Comparison Specs.

Disposition of Old Product:

Sell until inventory is depleted

Expected Implementation Date: Immediate

Customer Feedback Expected by:

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Immediate

Additional Comments: (Include Potential Risks if Appropriate)

Supporting Qualification Data:

Approved By:

(Minimum of three approvals are required.)

Vice President of Operations:

Vice President of Sales OED/Signals:

Product Manager: Shaun Koehler

Director of Customer Service: Kathy Smith

Director of Quality: Rich Liskoff

LED COMPARISON TABLE:									
	521-9724F EOL LED					NEW AllnGaP			
5MM Y/G Bi Color 2 LEADED LED WHITE EPOXY	559-3201-001,F-003F,-007F,-023F,-027F,550-3104F,550-3104-004F					Replacement LED			
DIFFUSED	550-310	550-3105F,-003F,-004F,550-3107F,-002F,-004F,-010F,550-3108F,550-							
	3110F,5	3110F,552-0742F,552-0744F,-010F,-0794-810F,561-3101-050F,-060F							
	,-070F,-080F,090F,-100F, 559-0001-820F								
	OPERATING CHARACTERISTICS @ 25° AMBIENT					OPERATING CHARACTERISTICS @ 25° AMBIENT			
	lf	MIN	TYP	MAX	-	lf	MIN	TYP	MAX
LUMINOUS INTENSITY (mcd) Yellow	20	2.5	8.7		-	20	11	30	50
LUMINOUS INTENSITY (mcd) Green	20	2.5	8.7			20	18	50	85
FORWARD VOLTAGE (V) YELLOW	20		2.1	2.8		20	1.6	2.1	2.6
FORWARD VOLTAGE (V) GREEN	20		2.1	2.8		20	1.6	2.1	2.6
PEAK WAVELENGTH (nm) YELLOW			585					591	
PEAK WAVELENGTH (nm) GREEN			565					573	
DOMINANT WAVELENGTH (nm) YELLOW							586	589	593
DOMINANT WAVELENGTH (nm) GREEN							567	571	574
VIEWING ANGLE 201/2 (deg)		50				50			
	ABSOLUTE MAXIMUM RATINGS @ TA=25° C					ABSOLUTE MAXIMUM RATINGS @ TA=25° C			
POWER DISSIPATION (mW)	100 yellow,60 green					52			
Transient pulsed CURRENT(mA) 10micro sec pulse	120 yellow,80 green					60			
CONTINUOUS FORWARD CURRENT (mA)	20 yellow, 30 green					20			
DERATING LINERALY FROM (mA/C°)	(50°) 0.25 yellow; 0.40 green					(50°) 0.4			
REVERSE CURRENT	5v Ir =100 micro amp					5V Ir=100 micro amps SEE NOTE			
OPERATING TEMP. RANGE (C°)	-55 TO +100					-40 to +100			
STORAGE TEMP. RANGE (C°)	-55 TO +100					-40 to +100			
LEAD SOLDERING TEMP. (C°) 1/16th from base		260C FOR 5 SECONDS				260C FOR 5 SECONDS			
	PHYSICAL DIMENSIONS					PHYSICAL DIMENSIONS			
LED EMITTING COLOR		YELLOW				YELLOW			
LED EMITTING COLOR	GREEN							GREEN	
LED EPOXY COLOR	WHITE DIFFUSED					WHITE DIFFUSED			
LED LEADS	Pb FREE RoHS					Pb FREE RoHS			
LED DIE TECHNOLOGY			GaAsP/GaP					AllnGaP	
NOTES:									
REVERSE VOLTAGE Vr Condition is applied for IR tes	st only. The	device is no	ot desianed for RE	VERSE OPERATION					