



Customer Product/Process Change Notification

PCN # OES15072901_521_55X

Issued Date: 2015July28

Issued By: Nick Oesterheld

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Change affects whole product family? No

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

5219461F, 5503505801F, 5503605F, 5503605100F, 5503609F, 5523540F, 5523544F

Description of Change:

LED P/N: 521-9461F is EOL and is being replaced by LED P/N: 521-8397F with Flange and AllnGaP Die Technology

Reason for Change:

LED is end of life

Properties of Old vs. Changed Product:

See attached comparison Specs.

Disposition of Old Product:

Use until inventory is depleted

Expected Implementation Date:

Customer Feedback Expected by:

Additional Comments: (Include Potential Risks if Appropriate)

LED is Brighter part due to new AllnGaP new die technology. Old Dim LED die is obsolete.

Supporting Qualification Data:

Approved By:

(Minimum of three approvals are required.)

Vice President of Operations: N/A

Vice President of Sales OED/Signals: N/A

Product Manager Nick Oesterheld

Director of Customer Service: Kathy Smith

Director of Design Validation: Angel Escamilla

LED COMPARISON TABLE:

EOL LED SPECS

Replacement LED SPECS 521-8397F

**5MM Y/G Bi Color 3 LEADED LED WHITE EPOXY 521-9461F, 550-3605-100F, 550-3605F, 550-3609F
DIFFUSED 550-3505-801F,552-3540F, 552-3544F**

OPERATING CHARACTERISTICS @ 25° AMBIENT

	If	MIN	TYP	MAX
LUMINOUS INTENSITY (mcd) Yellow		2.1		
LUMINOUS INTENSITY (mcd) Green		4.2		
FORWARD VOLTAGE (V) YELLOW			1.6	2.5
FORWARD VOLTAGE (V) GREEN			1.6	2.5
PEAK WAVELENGTH (nm) YELLOW			583	
PEAK WAVELENGTH (nm) GREEN			565	
DOMINANT WAVELENGTH (nm) YELLOW			585	
DOMINANT WAVELENGTH (nm) GREEN			569	
VIEWING ANGLE 2θ1/2 (deg)		65		

ABSOLUTE MAXIMUM RATINGS @ TA=25° C

POWER DISSIPATION (mW)	135
Transient pulsed CURRENT(mA) 10micro sec pulse	
CONTINUOUS FORWARD CURRENT (mA)	25
DERATING LINERALLY FROM (mA/C°)	(50°) 0.4
REVERSE CURRENT	
OPERATING TEMP. RANGE (C°)	-20 to +85
STORAGE TEMP. RANGE (C°)	-55 to +100
LEAD SOLDERING TEMP. (C°) 1/16th from base	260C FOR 5 SECONDS

PHYSICAL DIMENSIONS

LED EMITTING COLOR	YELLOW
LED EMITTING COLOR	GREEN
LED EPOXY COLOR	WHITE DIFFUSED
LED LEADS	Pb FREE RoHS
LED DIE TECHNOLOGY	GaAsP/GaP - Yellow; GaP - Green

OPERATING CHARACTERISTICS @ 25° AMBIENT

	If	MIN	TYP	MAX
LUMINOUS INTENSITY (mcd) Yellow		240	400	680
LUMINOUS INTENSITY (mcd) Green		120	240	400
FORWARD VOLTAGE (V) YELLOW			2.1	2.4
FORWARD VOLTAGE (V) GREEN			2.1	2.4
PEAK WAVELENGTH (nm) YELLOW			591	
PEAK WAVELENGTH (nm) GREEN			565	
DOMINANT WAVELENGTH (nm) YELLOW		586	590	593
DOMINANT WAVELENGTH (nm) GREEN		566	569	572
VIEWING ANGLE 2θ1/2 (deg)		30		

ABSOLUTE MAXIMUM RATINGS @ TA=25° C

POWER DISSIPATION (mW)	75
Transient pulsed CURRENT(mA) 10micro sec pulse	60
CONTINUOUS FORWARD CURRENT (mA)	30
DERATING LINERALLY FROM (mA/C°)	(30°) 0.4
REVERSE CURRENT	100
OPERATING TEMP. RANGE (C°)	-40 to +100
STORAGE TEMP. RANGE (C°)	-55 to +100
LEAD SOLDERING TEMP. (C°) 1/16th from base	260C FOR 5 SECONDS

PHYSICAL DIMENSIONS

LED EMITTING COLOR	YELLOW
LED EMITTING COLOR	GREEN
LED EPOXY COLOR	WHITE DIFFUSED
LED LEADS	Pb FREE RoHS
LED DIE TECHNOLOGY	AllnGaP Yellow / Green

NOTES:

REVERSE VOLTAGE Vr Condition is applied for IR test only. The device is not designed for REVERSE OPERATION