

Product Change Notification

PCN # 86404

Issued Date: 12/16/2021

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Change affects whole product family? No
Part #'s affected (See attached if entire product family is affected)
SEE ATTACHED AFFECTED P/N LIST
Description of Change:
5MM RED DIFFUSED AND AMBER-ORANGE DIFFUSED ARE EOL AND REPLACED BY SIMILAR LEDS WITH LIGHTER TINTED EPOXY IN THE OFF STATE .THESE LEDS ARE A LITTLE BRIGHTER AND FORM FIT THE SAME. 5MM GREEN DIFFUSED AND YELLOW DIFFUSED CBIS ARE EOL AND REPLACED WITH SIMILAR CBIS AIREADY AVAILABLE WITH LIGHTER TINTED EPOXY IN THE OFF STATE AND LITTLE BRIGHTER.
Reason for Change:
LED 5mm Red Diffused used in CBIs as well as the 5mm Amber Orange Diffused LED are EOL no dice material available. Replace with a little brighter and lighter tinted LEDs. The 5mm GREEN and 5mm YELLOW CBIs are EOL as well.
Properties of Old vs. Changed Product:
SEE ATTACHED COMPARISON TABLES OF REPLACEMENT LEDS and CBIs
Disposition of Old Product:
Deplete Stock and use replacement CBIs
Expected Implementation Date: Immediate Last Time Buy Date: 1-Not Applicable Customer Feedback Expected by: Not Applicable Additional Comments: (Include Petential Bicks if Apprentiate)
Additional Comments: (Include Potential Risks if Appropriate) Diffused Tinted Epoxy on Leds a little lighter color in the off state.
Supporting Qualification Data:
Available upon Request.
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.

AFFECTED END PRODUCT PART NUMBERS

5mm RED LIGHTER DIFFUSED LED IN OFF STATE 5mm RED DIFFUSED LED CBIs & PMI

REPLACEMENT Where-used 5219441F Same P/N with REVISED SPECS 5500004859F Same P/N with REVISED SPECS 5505104F Same P/N with REVISED SPECS 5505104004F Same P/N with REVISED SPECS 5505105F Same P/N with REVISED SPECS 5505105003F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5505105004F 5505107F Same P/N with REVISED SPECS 5505107002F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5505107004F 5505107100F Same P/N with REVISED SPECS 5505107801F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5505108F 5505112F Same P/N with REVISED SPECS 5520801F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5520811F Same P/N with REVISED SPECS 5520811802F Same P/N with REVISED SPECS 5520812F Same P/N with REVISED SPECS 5520813F 5520821F Same P/N with REVISED SPECS 5520831F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5595101001F 5595101003F Same P/N with REVISED SPECS 5595101007F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5595101017F 5595101023F Same P/N with REVISED SPECS 5595101027F Same P/N with REVISED SPECS 5595101803F Same P/N with REVISED SPECS 5595101807F Same P/N with REVISED SPECS 5595101808F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5595101809F 5595101810F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5595101811F Same P/N with REVISED SPECS 5615101050F 5615101060F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5615101070F Same P/N with REVISED SPECS 5615101080F Same P/N with REVISED SPECS 5615101090F Same P/N with REVISED SPECS

AFFECTED END PRODUCT PART NUMBERS

5615101100F

5mm AMBER-ORANGE DIFFUSED CBIs & PMI 5mm AMBER-ORANGE LIGHTER DIFFUSED LED IN OFF STATE

REPLACEMENT Where-used

Same P/N with REVISED SPECS 5505404F 5505404004F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5505405F Same P/N with REVISED SPECS 5505405004F Same P/N with REVISED SPECS 5505407F Same P/N with REVISED SPECS 5505407002F 5505407004F Same P/N with REVISED SPECS 5505407100F Same P/N with REVISED SPECS 5505408F Same P/N with REVISED SPECS 5595401001F Same P/N with REVISED SPECS 5595401003F Same P/N with REVISED SPECS

5595401007F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5595401023F 5595401027F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5595401804F 5615401050F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5615401060F Same P/N with REVISED SPECS 5615401070F 5615401080F Same P/N with REVISED SPECS 5615401090F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5615401100F

AFFECTED END PRODUCT PART NUMBERS REPLACEMENT

5MM GREEN DIFFUSED CBIs & PMI 5mm GREEN LIGHTER DIFFUSED LED IN OFF STATE

5219456F 5219270F 5500004840F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5500004859F 5505204F Same P/N with REVISED SPECS 5505204004F Same P/N with REVISED SPECS 5505205F Same P/N with REVISED SPECS 5505205010F Same P/N with REVISED SPECS 5505205003F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5505205004F 5505207F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5505207002F Same P/N with REVISED SPECS 5505207004F Same P/N with REVISED SPECS 5505207100F Same P/N with REVISED SPECS 5505207801F Same P/N with REVISED SPECS 5505208F 5505212F Same P/N with REVISED SPECS 5520812F Same P/N with REVISED SPECS 5520821F Same P/N with REVISED SPECS 5520822F Same P/N with REVISED SPECS

5520823F Same P/N with REVISED SPECS 5520832F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5595201001F 5595201003F Same P/N with REVISED SPECS 5595201007F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5595201017F 5595201023F Same P/N with REVISED SPECS

5595201027F Same P/N with REVISED SPECS Same P/N with REVISED SPECS 5595201807F Same P/N with REVISED SPECS 5595201809F Same P/N with REVISED SPECS 5595201810F 5595201812F Same P/N with REVISED SPECS 5595201813F Same P/N with REVISED SPECS 5595201814F Same P/N with REVISED SPECS Same P/N with REVISED SPECS

5590002801F 5615201050F 5612201050F 5615201060F 5612201060F 5615201070F 5612201070F 5615201080F 5612201080F 5615201090F 5612201090F 5615201100F 5612201100F

AFFECTED END PRODUCT PART NUMBERS

5MM YELLOW DIFFUSED CBIs & PMI 5mm YELLOW LIGHTER DIFFUSED LED IN OFF STATE 521-9248F

REPLACEMENT

5219455F

5505304F	5502304F
5505304004F	5502304004F
5505305F	5502305F
5505305003F	5502305003F
5505305004F	5502305004F
5505307F	5502307F
5505307002F	5502307002F
5505307004F	5502307004F
5505307014F	5502307014F
5505307100F	5502307100F
5505307801F	5502307801F
5505308F	5502308F
5505312F	5502312F
5520813F	5520213F
5520823F	5520223F
5520831F	5520231F
5520832F	5520232F
5520833F	5520233F
5595301001F	5592301001F
5595301003F	5592301003F
5595301007F	5592301007F
5595301017F	5592301017F
5595301023F	5592301023F
5595301027F	5592301027F
5595301802F	5595301802NF
5595301803F	5595301803NF
5595301805F	5595301805NF
5595301808F	5595301808NF
5595301809F	5595301809NF
5590002801F	5590002801NF
5615301050F	5612301050F
5615301060F	5612301060F
5615301070F	5612301070F
5615301080F	5612301080F
5615301090F	5612301090F
5615301100F	5612301100F

RED Notation inicates new P/N assignment

		LED CO	ОМРА	RISO	N TAB	LE					
	PARAMETERS	5mm ORANGE DIFFUSED Tinted REPLACEMENT LED For CBIs				5mm ORANGE DIFFUSED Tinted EOL LED					
	PARAMETERS	CONDITIONS	MIN	TYP	MAX	CONDITIONS	MIN	TYP	MAX		
С	LUMINOUS INTENSITY (mcd)		10	50	140		17	34			
CHARACTERISTICS	FORWARD VOLTAGE (V)			2.1	2.6			2.2	3		
ACI	PEAK WAVELENGTH (nm)	IF = 20 mA; Ts = 25°C		610		IF = 20 mA; Ts = 25°C		610			
포	DOMINANT WAVELENGTH (nm)	IF = 20 mA; IS = 25 °C		602		IF = 20 IIIA; 15 = 25 C					
STIC	VIEWING ANGLE 2e1/2 (deg)			50				50			
S	REVERSE CURRENT (μA) Vr = 5v				10				10		
7	FORWARD CURRENT (mA)		20			25					
ē	SURGE CURRENT (mA)	80			60						
			80								
MC.	t ≤ 10 μs; D = 0.005 ; TS = 25 °C		80								
MUM			5				3				
(IMUM RAT	t ≤ 10 μs; D = 0.005 ; TS = 25 °C	-40									
IMUM RATING	t ≤ 10 μs; D = 0.005 ; TS = 25 °C REVERSE VOLTAGE (Ts = 25°C)		5			-25	3				
MAXIMUM RATINGS	t \leq 10 μs; D = 0.005 ; TS = 25 °C REVERSE VOLTAGE (Ts = 25°C) OPERATING TEMP. RANGE (C°)		5 TO +100			-25 -30 f	3 to +85				
	t ≤ 10 µs; D = 0.005 ; TS = 25 °C REVERSE VOLTAGE (Ts = 25°C) OPERATING TEMP. RANGE (C°) STORAGE TEMP. RANGE (C°)		5 TO +100 TO +100 60	.340"LG)		-25 -30 f	3 to +85 to +100 75	340"LG)			
	t ≤ 10 µs; D = 0.005; TS = 25 °C REVERSE VOLTAGE (Ts = 25 °C) OPERATING TEMP. RANGE (C°) STORAGE TEMP. RANGE (C°) Power Dissipation (MW)	-40 5mm(.197" DIJ	5 TO +100 TO +100 60			-25 -30 I 5mm(.197" DIA)	3 to +85 to +100 75				
	t ≤ 10 µs; D = 0.005; TS = 25 °C REVERSE VOLTAGE (TS = 25 °C) OPERATING TEMP. RANGE (C*) STORAGE TEMP. RANGE (C*) Power Dissipation (MW) THRU HOLE Smm DIA	-40 5mm(.197" DI/ ORANG	5 TO +100 TO +100 60)		-25 -30 i 5mm(.197" DIA) ORANG	3 to +85 to +100 75 x 8.6mm (,			
IMUM RATINGS DIMENSIONS	t ≤ 10 µs; D = 0.005; TS = 25 °C REVERSE VOLTAGE (TS = 25 °C) OPERATING TEMP. RANGE (C*) STORAGE TEMP. RANGE (C*) Power Dissipation (MW) THRU HOLE 5mm DIA LED EMITTING COLOR	-40 5mm(.197" DI ORANI ORANI	5 TO +100 TO +100 60 A) x 8.6mm (GE DIFFUSED)		-25 -30 I Smm(.197" DIA) ORANG ORANG	3 to +85 to + 100 75 x 8.6mm (,			

	LED COMPARISON TABLE								
	PARAMETERS	5mm RED DIFFUSED (55194	5mm RED DIFFUSED (5519441F) Replacement LED for CBIs			5mm RED DIFFUSE	D 521-944	1F EOL LED	
	FARAIVIETERS	CONDITIONS	MIN	TYP	MAX	CONDITIONS	MIN	TYP	MAX
0	LUMINOUS INTENSITY (mcd)		5.6	19			17	34	
HAR	FORWARD VOLTAGE (V) @ 20ma			2.0	2.6			2.1	2.55
AC	PEAK WAVELENGTH (nm)	IF = 10 mA; Ts = 25°C		635		IF = 20 mA; Ts = 25°C		650	
CHARACTERISTICS	DOMINANT WAVELENGTH (nm)	IF = 10 IIIA; 15 = 25 C		623		IF = 20 IIIA; 15 = 25 C		?	
STIC	VIEWING ANGLE 2e1/2 (deg)			50				50	
S	REVERSE CURRENT (μA) Vr = 5v				100				10
2	FORWARD CURRENT (mA)		30			25			
MAXIMUM RATINGS	SURGE CURRENT (mA)		90			60			
Ξ	t ≤ 10 μs; D = 0.005 ; TS = 25 °C								
Ž	REVERSE VOLTAGE (Ts = 25°C)		5			3			
RAT	OPERATING TEMP. RANGE (C°)	-55 1	TO +100			-55 to +100			
N.	STORAGE TEMP. RANGE (C°)	-55 1	-55 TO +100			-55 to + 100			
S	Power Dissipation (MW)		90	0		75			
_	THRU HOLE 5MM DIA	5.0(.197"DIA	x8.6 (.340	"LG)		5mm(.197" DIA) x 8.6mm (.340"LG)			
M	LED EMITTING COLOR	RED E	IFFUSED			RED D	IFFUSED		
ENS	LED EPOXY COLOR	RED DIFFUSED ligh	iter epoxy ii	off state		RED D	IFFUSED		
DIMENSIONS	LED DIE TECHNOLOGY	All	nGaP			0	iaAs		
S									

	LED COMPARISON TABLE										
	PARAMETERS	5 mm GREEN DIFFUSED 5219	5 mm GREEN DIFFUSED 5219270F REPLACEMENT LED FOR CBIs				5 mm GREEN DIFFUSED 5219456F EOL LED				
	FARMIVIETERS	CONDITIONS	MIN	TYP	MAX	CONDITIONS	MIN	TYP	MAX		
C	LUMINOUS INTENSITY (mcd)		8.7	19	100		17	34			
Ā	FORWARD VOLTAGE (V) @v20ma			2.1	2.6			2.2	3.0		
ACI	PEAK WAVELENGTH (nm)	IF = 10 mA; Ts = 25°C		565		IF = 20 mA; Ts = 25°C		563			
문	DOMINANT WAVELENGTH (nm)	IF - 10 IIIA, 13 - 23 C	566	569	573	IF - 20 IIIA, 13 - 23 C					
CHARACTERISTICS	VIEWING ANGLE 2e1/2 (deg)			50				50			
8	REVERSE CURRENT (μA) Vr = 5v				100				10		
7	FORWARD CURRENT (mA)		30				25				
махімим	SURGE CURRENT (mA)		120				60				
Ξ	t ≤ 10 μs; D = 0.005 ; TS = 25 °C										
Ī	REVERSE VOLTAGE (Ts = 25°C)					3					
	,		5				•				
RAT	OPERATING TEMP. RANGE (C°)		TO +100				o +100				
RATING	OPERATING TEMP. RANGE (C°) STORAGE TEMP. RANGE (C°)		TO +100			-55 t	to +100 to +100				
RATINGS	OPERATING TEMP. RANGE (C°)		TO +100			-55 t	o +100				
RATINGS	OPERATING TEMP. RANGE (C°) STORAGE TEMP. RANGE (C°)		TO +100 TO +100	(.340"LG)		-55 t	to +100 to +100 75	340"LG)			
RATINGS	OPERATING TEMP. RANGE (C°) STORAGE TEMP. RANGE (C°) Power Dissipation (MW)	-55 5mm(.197" DIA	TO +100 TO +100			-55 f 5mm(.197" DIA)	to +100 to +100 75	340"LG)			
RATINGS	OPERATING TEMP. RANGE (C*) STORAGE TEMP. RANGE (C*) Power Dissipation (MW) THRU HOLE 5mm DIA	-55 5mm(.197" DIA	TO +100 TO +100 100 A) x 8.6mm (ATE	-55 t 5mm(.197" DIA) GREEN	to +100 to +100 75 x 8.6mm (.3	340"LG)			
RATINGS DIMENSIONS	OPERATING TEMP. RANGE (C') STORAGE TEMP. RANGE (C') Power Dissipation (MW) THRU HOLE 5mm DIA LED EMITTING COLOR	-55 Smm(.197" DIA GREEN GREEN DIFFUSED LIG	TO +100 TO +100 100 A) x 8.6mm (ATE	-55 (5mm(.197" DIA) GREEN GREEN	to +100 to +100 75 x 8.6mm (.3	340"LG)			

	LED COMPARISON TABLE									
	PARAMETERS	5 mm YELLOW DIFFUSED 521	5 mm YELLOW DIFFUSED 5219248F REPLACEMENT LED FOR CBIs			5 mm YELLOW DIFFUSED 5219455F EOL LED				
	FARAIVIETERS	CONDITIONS	MIN	TYP	MAX	CONDITIONS	MIN	TYP	MAX	
CI	LUMINOUS INTENSITY (mcd)		8.7	29	100		17	34		
CHARACTERISTICS	FORWARD VOLTAGE (V)			2.1	2.6			2.2	3	
AC.	PEAK WAVELENGTH (nm)	IF = 10 mA: Ts = 25°C		585		IF = 20 mA: Ts = 25°C		585		
문	DOMINANT WAVELENGTH (nm)	IF - 10 IIIA, 13 - 23 C	580	590	595	IF - 20 IIIA, 13 - 23 C				
STIC	VIEWING ANGLE 2e1/2 (deg)			50				50		
S	REVERSE CURRENT (μA) Vr = 5v				100				10	
7	FORWARD CURRENT (mA)		20				25			
MAXIMUM RATINGS	SURGE CURRENT (mA)		60				60			
₫	t ≤ 10 μs; D = 0.005 ; TS = 25 °C									
Ž	REVERSE VOLTAGE (Ts = 25°C)		5			3				
RAT	OPERATING TEMP. RANGE (C°)	-	-55 TO +100			-55 to +100				
Ĭ.	STORAGE TEMP. RANGE (C°)	-51	TO +100			-55 to + 100				
iš	Power Dissipation (MW)		60				75			
	THRU HOLE 5mm DIA	5mm(.197" DI	A) x 8.6mn	n (.340"LG)		5mm(.197" DIA) x 8.6mm (.340"LG)				
		YELLOW DIFFUSED				YELLOW	DIFFUSED			
DIM	LED EMITTING COLOR	TELLO	YELLOW DIFFUSED LIGHTER EPOXY IN OFF STATE			YELLOW DIFFUSED				
DIMENS	LED EMITTING COLOR LED EPOXY COLOR		IGHTER EPO	DXY IN OFF	STATE	YELLOW	DIFFUSED			
DIMENSIONS		YELLOW DIFFUSED LI	IGHTER EPO AlinGaP	OXY IN OFF	STATE		DIFFUSED sP/GaP			