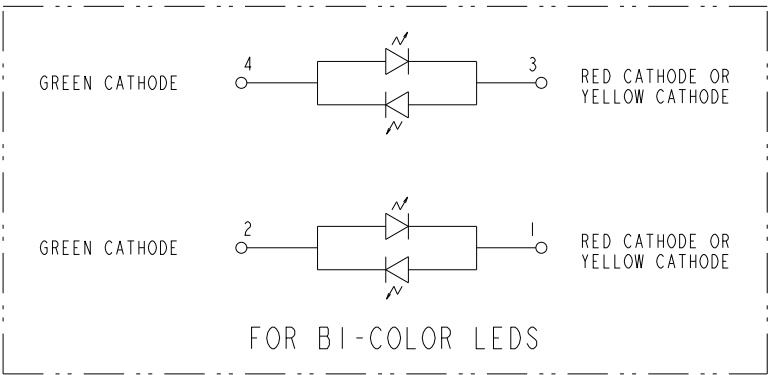
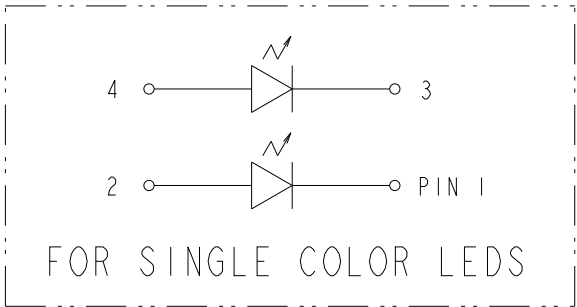
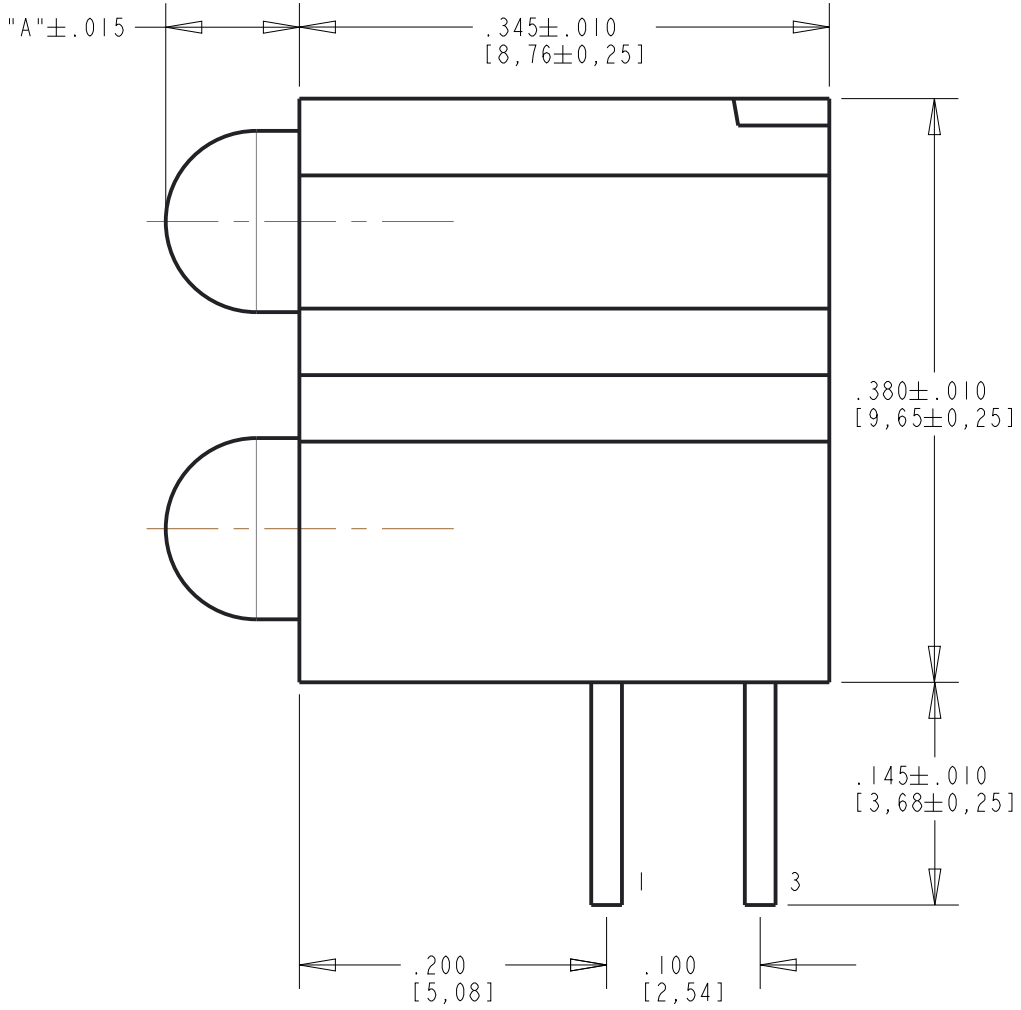
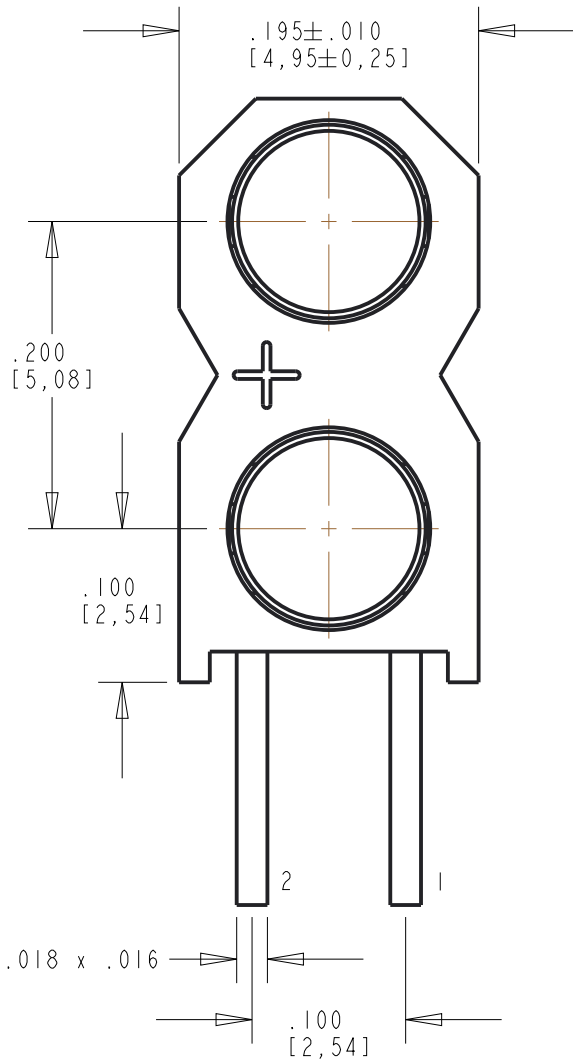
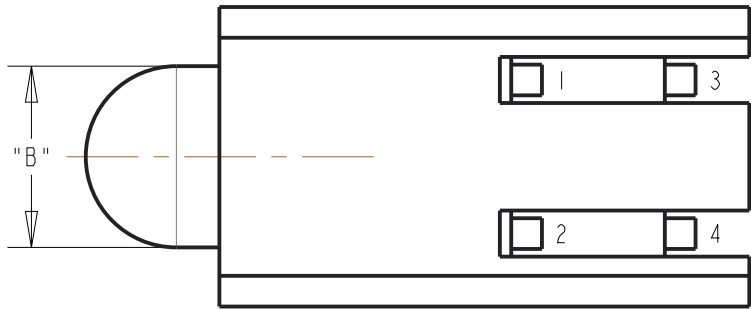


DIALIGHT PART NUMBER	LED COLOR		DIM "A"	DIM "B"
	POSITION 1	POSITION 2		
553-0102-300F	BLANK	GREEN DIFFUSED	.087	.118±.010
553-0103-300F	BLANK	YELLOW DIFFUSED	.087	.118±.010
553-0108-300F	BLANK	BLUE NON-TINTED DIFFUSED	.093	.110±.010
553-0111-300F	RED DIFFUSED	RED DIFFUSED	.087	.118±.010
553-0112-300F	RED DIFFUSED	GREEN DIFFUSED	.087	.118±.010
553-0113-300F	RED DIFFUSED	YELLOW DIFFUSED	.087	.118±.010
553-0117-300F	RED DIFFUSED	ORANGE DIFFUSED	.087	.118±.010
553-0121-300F	GREEN DIFFUSED	RED DIFFUSED	.087	.118±.010
553-0122-300F	GREEN DIFFUSED	GREEN DIFFUSED	.087	.118±.010
553-0123-300F	GREEN DIFFUSED	YELLOW DIFFUSED	.087	.118±.010
553-0127-300F	GREEN DIFFUSED	ORANGE DIFFUSED	.087	.118±.010
553-0131-300F	YELLOW DIFFUSED	RED DIFFUSED	.087	.118±.010
553-0132-300F	YELLOW DIFFUSED	GREEN DIFFUSED	.087	.118±.010
553-0133-300F	YELLOW DIFFUSED	YELLOW DIFFUSED	.087	.118±.010
553-0172-300F	ORANGE DIFFUSED	GREEN DIFFUSED	.087	.118±.010
553-0177-300F	ORANGE DIFFUSED	ORANGE DIFFUSED	.087	.115±.010
553-0188-300F	BLUE NON-TINTED DIFFUSED	BLUE NON-TINTED DIFFUSED	.093	.110±.005
553-0201-300F	BLANK	2 mA RED DIFFUSED	.087	.115±.010
553-0203-300F	BLANK	2 mA YELLOW DIFFUSED	.087	.115±.010
553-0211-300F	2 mA RED DIFFUSED	2 mA RED DIFFUSED	.087	.115±.010
553-0212-300F	2 mA RED DIFFUSED	2 mA GREEN DIFFUSED	.087	.115±.010
553-0213-300F	2 mA RED DIFFUSED	2 mA YELLOW DIFFUSED	.087	.115±.010
553-0221-300F	2 mA GREEN DIFFUSED	2 mA RED DIFFUSED	.087	.115±.010
553-0222-300F	2 mA GREEN DIFFUSED	2 mA GREEN DIFFUSED	.087	.115±.010
553-0223-300F	2 mA GREEN DIFFUSED	2 mA YELLOW DIFFUSED	.087	.115±.010
553-0232-300F	2 mA YELLOW DIFFUSED	2 mA GREEN DIFFUSED	.087	.115±.010
553-0233-300F	2 mA YELLOW DIFFUSED	2 mA YELLOW DIFFUSED	.087	.115±.010
553-0303-300F	BLANK	5 V YELLOW DIFFUSED	.087	.115±.010
553-0311-300F	5 V RED DIFFUSED	5 V RED DIFFUSED	.087	.115±.010
553-0312-300F	5 V RED DIFFUSED	5 V GREEN DIFFUSED	.087	.115±.010
553-0313-300F	5 V RED DIFFUSED	5 V YELLOW DIFFUSED	.087	.115±.010
553-0322-300F	5 V GREEN DIFFUSED	5 V GREEN DIFFUSED	.087	.115±.010
553-0323-300F	5 V GREEN DIFFUSED	5 V YELLOW DIFFUSED	.087	.115±.010
553-0332-300F	5 V YELLOW DIFFUSED	5 V GREEN DIFFUSED	.087	.115±.010
553-0333-300F	5 V YELLOW DIFFUSED	5 V YELLOW DIFFUSED	.087	.115±.010
553-0701-300F	BLANK	BI-COLOR RED/GREEN	.093	.118±.005
553-0711-300F	BI-COLOR RED/GREEN	BI-COLOR RED/GREEN	.093	.118±.005
553-0714-300F	BI-COLOR RED/GREEN	BI-COLOR YELLOW/GREEN	.093	.118±.005
553-0741-300F	BI-COLOR YELLOW/GREEN	BI-COLOR RED/GREEN	.093	.118±.005
553-0744-300F	BI-COLOR YELLOW/GREEN	BI-COLOR YELLOW/GREEN	.093	.118±.005
553-2211-300F	RED TINTED NON-DIFFUSED	RED TINTED NON-DIFFUSED	.087	.115±.010
553-2222-300F	GREEN TINTED NON-DIFFUSED	GREEN TINTED NON-DIFFUSED	.087	.115±.010
553-2223-300F	GREEN TINTED NON-DIFFUSED	YELLOW TINTED NON-DIFFUSED	.087	.115±.010
553-2232-300F	YELLOW TINTED NON-DIFFUSED	GREEN TINTED NON-DIFFUSED	.087	.115±.010
553-2233-300F	YELLOW TINTED NON-DIFFUSED	YELLOW TINTED NON-DIFFUSED	.087	.115±.010

RoHS Compliant 553-XXXX-300F Thru hole Bi-level CBI

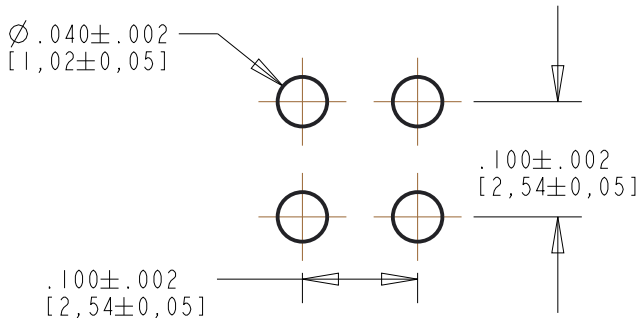
Part Numbers with the "F" suffix ending are RoHS Compliant.
Example: 553-0112-300F
The bag packaging is marked with "RoHS Compliant" label or equivalent markings.
Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	TWC	—	—	—
B	—	ADDED P/N 553-2232-300F & DUAL DIMENSIONS; UPDATED NOTES; DELETED BACK VIEW.	AJF	KLJ	NO	9-29-10
C	—	UPDATED DIM A & B FOR P/N 553-01XX-300F & 553-0172-300F. UPDATED LED LEAD DIM. AND HOLE PATTERN DIAM. ALSO UPDATED LED SPECS for 10mA DIFFUSED	BP	—	NO	8-22-16
D	117905	ADDED ABSOLUTE MAXIMUM RATINGS VALUES OF THE LEDS, UPDATED SPECS OF ALL LEDS	LD	CS	NO	5-13-24



NOTES:

- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
- PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- DIALIGHT PART NUMBERS: 553-XXXX-300F.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.



RECOMMENDED HOLE PATTERN GAUGE



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE PROPERTY OF DIALIGHT CORP. REPRODUCTION OF THIS DRAWING OR CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF DIALIGHT CORP.		
SCALE: 6.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-17297	D
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE 3mm BI-LEVEL LED CBI RoHS COMPLIANT	
FRACTIONS: ±1/64 DECIMALS (.XX): ±.02 DECIMALS (.XXX): ±.015	MATERIAL	
ANGLES: ±1°	FINISH	
FSCM 83330	 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
SHEET 1 OF 2 FAMILY TABLE:		

10 mA NON-DIFFUSED LED [OPERATING CHARACTERISTICS AT 25°C]							10 mA NON-DIFFUSED LED [ABS MAXIMUM RATINGS AT 25°C]				
CHARACTERISTICS	COLOR	MIN	TYP	MAX	UNITS	TEST CONDITIONS	CHARACTERISTICS	COLOR	MAX	UNITS	
LUMINOUS INTENSITY	RED	8.7	29		mcd	I _F = 10 mA	PEAK FORWARD CURRENT	RED	120	mA	
	YELLOW	3.7	5.6	30				YELLOW	80		
	GREEN	5.6	19					GREEN	90		
DOMINANT WAVELENGTH	RED		623		nm		LINEAR DERATION FROM 50°C	RED	0.40	mA/°C	
	YELLOW		588					YELLOW	0.25		
	GREEN		569					GREEN	0.71		
VIEWING ANGLE	RED				deg		FORWARD CURRENT	RED	30	mA	
	YELLOW		60					YELLOW	20		
	GREEN							GREEN	30		
FORWARD VOLTAGE	RED		2.0	2.6	V	I _F = 20 mA	POWER DISSIPATION	RED	100	mW	
	YELLOW		2.1	2.6				YELLOW	60		
	GREEN		2.1	2.6				GREEN	80		
REVERSE CURRENT	RED			100	uA	V _R = 5V	OPERATING TEMPERATURE	RED	-55 to +100	°C	
	YELLOW			100				YELLOW	-55 to +100		
	GREEN			100				GREEN	-40 to +85		
PEAK WAVELENGTH	RED		635		nm	MEASURED AT PEAK	STORAGE TEMPERATURE	RED	-55 to +100	°C	
	YELLOW		585					YELLOW	-55 to +100		
	GREEN		565					GREEN	-40 to +100		

10 mA DIFFUSED LED [OPERATING CHARACTERISTICS AT 25°C]							10 mA DIFFUSED LED [ABS MAXIMUM RATINGS AT 25°C]			
CHARACTERISTICS	COLOR	MIN	TYP	MAX	UNITS	TEST CONDITIONS	CHARACTERISTICS	COLOR	MAX	UNITS
LUMINOUS INTENSITY	RED	2.5	8.7	50	mcd	I _F = 10 mA *I _F = 2 mA BLUE	PEAK FORWARD CURRENT	RED	90	mA
	YELLOW	3.7	5.6	30				YELLOW	60	
	GREEN	5.6	12.6	29				GREEN	90	
	*BLUE	11		20				BLUE	100	
	ORANGE	2.1	7.0					ORANGE	90	
DOMINANT WAVELENGTH	RED	615	625	632	nm		LINEAR DERATION FROM 50°C	RED	0.40	mA/°C
	YELLOW	584	590	595				YELLOW	0.18	
	GREEN	564	569	574				GREEN	0.40	
	BLUE	460	467	475				BLUE	0.50	
	ORANGE		605					ORANGE	—	
VIEWING ANGLE	RED				deg		FORWARD CURRENT	RED	30	mA
	YELLOW		60					YELLOW	30	
	GREEN							GREEN	30	
	BLUE							BLUE	30	
	ORANGE							ORANGE	20	
FORWARD VOLTAGE	RED		2.0	2.6	V	I _F = 10 mA *I _F = 2 mA BLUE	POWER DISSIPATION	RED	100	mW
	YELLOW		2.1	2.6				YELLOW	60	
	GREEN		2.1	2.6				GREEN	80	
	BLUE	2.0	2.7	3.5				BLUE	120	
	ORANGE	1.5	1.9	2.4				ORANGE	—	
REVERSE CURRENT	RED			100	uA	V _R = 5V	OPERATING TEMPERATURE	RED	-55 TO +100	°C
	YELLOW			100				YELLOW	-40 TO +85	
	GREEN			100				GREEN	-55 TO +100	
	BLUE			100				BLUE	-25 TO +80	
	ORANGE			100				ORANGE	-40 TO +100	
PEAK WAVELENGTH	RED		635		nm	MEASURED AT PEAK	STORAGE TEMPERATURE	RED	-55 TO +100	°C
	YELLOW		585					YELLOW	-40 TO +100	
	GREEN		565					GREEN	-55 TO +100	
	BLUE		468					BLUE	-30 TO +100	
	ORANGE		610					ORANGE	-40 TO +100	

2 mA DIFFUSED LED [OPERATING CHARACTERISTICS AT 25°C]							
CHARACTERISTICS	COLOR	MIN	TYP	MAX	UNITS	TEST CONDITIONS	
LUMINOUS INTENSITY	RED	0.75	2.5		mcd	I _F = 2 mA	
	YELLOW	0.4	4.5				
	GREEN	0.4	1.1				
DOMINANT WAVELENGTH	RED		623		nm		
	YELLOW		588				
	GREEN		569				
VIEWING ANGLE	RED		60		deg		
	YELLOW		60				
	GREEN		60				
FORWARD VOLTAGE	RED		1.7	2.2	V	I _F = 2 mA	
	YELLOW		1.8	2.7			
	GREEN		1.9	2.2			
REVERSE CURRENT	RED			10	uA	V _R = 5V	
	YELLOW			10			
	GREEN			10			
PEAK WAVELENGTH	RED		635		nm	MEASURED AT PEAK	
	YELLOW		585				
	GREEN		565				

2 mA DIFFUSED LED [ABSOLUTE MAXIMUM RATINGS AT 25°C]			
CHARACTERISTICS	COLOR	MAX	UNITS
FORWARD SURGE CURRENT (10u sec pulse)	RED	500	mA
	YELLOW		
	GREEN		
LINEAR DERATION FROM 90°C	RED	0.70	mA/°C
	YELLOW	0.70	
	GREEN	0.70	
FORWARD CURRENT	RED	7	mA
	YELLOW		
	GREEN		
POWER DISSIPATION	RED	20	mW
	YELLOW	20	
	GREEN	20	
OPERATING TEMPERATURE	RED	-55 TO +100	°C
	YELLOW		
	GREEN		
STORAGE TEMPERATURE	RED	-55 TO +100	°C
	YELLOW		
	GREEN		

5 V INTEGRAL RESISTOR LED [OPERATING CHARACTERISTICS AT 25°C]						
CHARACTERISTICS	COLOR	MIN	TYP	MAX	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	RED	8.7	29		mcd	V _F = 5 V
	YELLOW	3.7	12.6			
	GREEN	5.6	19			
DOMINANT WAVELENGTH	RED		623		nm	
	YELLOW		588			
	GREEN		569			
VIEWING ANGLE	RED		60		deg	
	YELLOW		60			
	GREEN		60			
FORWARD VOLTAGE	RED		10		V	I _F = 2 mA
	YELLOW		1.8	2.2		
	GREEN		1.9	2.2		
FORWARD CURRENT	RED	8	12	16	mA	V _{CC} = 5V
	YELLOW	8	12	16		
	GREEN	8	12	16		
PEAK WAVELENGTH	RED		635		nm	MEASURED AT PEAK
	YELLOW		585			
	GREEN		565			

5V INTEGRAL RESISTOR LED [ABSOLUTE MAXIMUM RATINGS AT 25°C]			
CHARACTERISTICS	COLOR	MAX	UNITS
DC FORWARD VOLTAGE (TA = 25°C)	RED	7.5	V
	YELLOW	7.5	
	GREEN	7.5	
LINEAR DERATION FROM 50°C	RED	0.071	mA/°C
	YELLOW	0.071	
	GREEN	0.071	
FORWARD CURRENT	RED	20	mA
	YELLOW	20	
	GREEN	20	
OPERATING TEMPERATURE	RED	-40 TO +85	°C
	YELLOW	-40 TO +85	
	GREEN	-40 TO +85	
STORAGE TEMPERATURE	RED	-55 TO +100	°C
	YELLOW	-55 TO +100	
	GREEN	-55 TO +100	

BI-COLOR LED [OPERATING CHARACTERISTICS AT 25°C]						
CHARACTERISTICS	COLOR	MIN	TYP	MAX	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	YELLOW	3.8		11	mcd	I _F = 10 mA
	GREEN	6.5		18		
	RED	1.2	5.6	30		
DOMINANT WAVELENGTH	RED	1.5	8.7	30	nm	
	YELLOW	583	588	593		
	GREEN	564	569	574		
VIEWING ANGLE	RED	612	621	633	deg	
	GREEN	564	569	577		
	YELLOW		80			
FORWARD VOLTAGE	RED		200		mA	I _F = 10 mA
	YELLOW		2.1	2.6		
	GREEN		2.0	2.6		
REVERSE CURRENT	YELLOW			10	uA	V _R = 5V
	RED			100		
	GREEN					
PEAK WAVELENGTH	YELLOW		585		nm	MEASURED AT PEAK
	GREEN		565			
	RED		630			
	GREEN		565			

BI-COLOR LED [ABSOLUTE MAXIMUM RATINGS AT 25°C]			
CHARACTERISTICS	COLOR	MAX	UNITS
PEAK FORWARD CURRENT	YELLOW	80	mA
	GREEN	120	
	RED	90	
LINEAR DERATION FROM 50°C	YELLOW	0.30	mA/°C
	GREEN	0.40	
	RED	0.40	
FORWARD CURRENT	YELLOW	20	mA
	GREEN	30	
	RED	30	
POWER DISSIPATION	YELLOW	52	mW
	GREEN	78	
	RED	100	
OPERATING TEMPERATURE	YELLOW	-55 TO +100	°C
	RED	-55 TO +100	
	GREEN	-55 TO +100	
STORAGE TEMPERATURE	YELLOW	-55 TO +100	°C
	RED	-55 TO +100	
	GREEN	-55 TO +100	

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DIALIGHT CORP INTERNAL REFERENCE ONLY - 3D MODEL : 553XXX300F-A-1			
SCALE: 5.000		DRAWING NUMBER	
ALL DIM'S IN: INCHES (MM)		C-17297	REV
TOLERANCES: UNLESS OTHERWISE SPECIFIED			
FRACTIONS: ±1/64		TITLE	D
DECIMALS (.XX): ±.01			
DECIMALS (.XXX): ±.005		3mm BI-LEVEL LED CBI	
DECIMALS (.XXXX): ±.0005			
ANGLES: ±1°		MATERIAL	
FINISH			
FSCM 83330		1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialightbl.com	
		SHEET 2 OF 2 FAMILY TABLE:	