

PART NUMBER	LED COLOR	
	POSITION 1	POSITION 2
553-0102-400F	** BLANK **	GREEN DIFFUSED
553-0111-400F	RED DIFFUSED	RED DIFFUSED
553-0112-400F	RED DIFFUSED	GREEN DIFFUSED
553-0117-400F	RED DIFFUSED	ORANGE DIFFUSED
553-0121-400F	GREEN DIFFUSED	RED DIFFUSED
553-0122-400F	GREEN DIFFUSED	GREEN DIFFUSED
553-0123-400F	GREEN DIFFUSED	YELLOW DIFFUSED
553-0132-400F	YELLOW DIFFUSED	GREEN DIFFUSED
553-0133-400F	YELLOW DIFFUSED	YELLOW DIFFUSED
553-0172-400F	ORANGE DIFFUSED	GREEN DIFFUSED
553-0177-400F	ORANGE DIFFUSED	ORANGE DIFFUSED
*553-0188-400F	BLUE DIFFUSED	BLUE DIFFUSED
553-0201-400F	** BLANK **	RED 2mA
553-0202-400F	** BLANK **	GREEN 2 mA
553-0203-400F	** BLANK **	YELLOW 2 mA
553-0211-400F	RED 2 mA	RED 2 mA
553-0212-400F	RED 2 mA	GREEN 2 mA
553-0213-400F	RED 2 mA	YELLOW 2 mA
553-0221-400F	GREEN 2 mA	RED 2 mA
553-0222-400F	GREEN 2 mA	GREEN 2 mA
553-0223-400F	GREEN 2 mA	YELLOW 2 mA
553-0232-400F	YELLOW 2 mA	GREEN 2 mA
553-0233-400F	YELLOW 2 mA	YELLOW 2 mA
553-0311-400F	RED 5 V	RED 5 V
553-0312-400F	RED 5 V	GREEN 5 V
553-0313-400F	RED 5 V	YELLOW 5 V
553-0322-400F	GREEN 5 V	GREEN 5 V
553-0333-400F	YELLOW 5 V	YELLOW 5 V
553-0711-400F	RED / GREEN	RED / GREEN
553-0744-400F	YELLOW / GREEN	YELLOW / GREEN
553-2211-400F	RED NON-DIFFUSED	RED NON-DIFFUSED
553-2222-400F	GREEN NON-DIFFUSED	GREEN NON-DIFFUSED
553-2233-400F	YELLOW NON-DIFFUSED	YELLOW NON-DIFFUSED

5 V., INTEGRAL RESISTOR LED OPERATING CHARACTERISTICS AT 25°C AMBIENT (FOR 553-03XX-400F)						
CHARACTERISTICS	L.E.D. COLOR	MIN	TYP	MAX	UNITS	TEST COND.
LUMINOUS INTENSITY	RED	8.7	29		mcd	V _F = 5 V
	YELLOW	3.7	12.6			
	GREEN	5.6	19			
FORWARD CURRENT	RED		12	16	mA	V _F = 5 V
	YELLOW		12	16		
	GREEN		12	16		
REVERSE CURRENT	ALL			100	μA	V _R = 5 V
DOMINANT WAVELENGTH	RED		623		nm	
	YELLOW		588			
	GREEN		569			
VIEWING ANGLE	ALL		60		Degree	

BI-COLOR LED OPERATING CHARACTERISTICS AT 25°C AMBIENT (FOR 553-07XX-400F)						
CHARACTERISTICS	L.E.D. COLOR	MIN	TYP	MAX	UNITS	TEST COND.
LUMINOUS INTENSITY	YELLOW/GREEN	3.0/6.5		8.5/18	mcd	$I_F = 10 \text{ mA}$
	RED/GREEN	1.2/1.5	5.6/8.7	30/30		$I_F = 10 \text{ mA}$
FORWARD VOLTAGE	YELLOW/GREEN		2.1/2.1	2.6/2.6	V	$I_F = 10 \text{ mA}$
	RED/GREEN		2.0/2.1	2.6/2.6		$I_F = 20 \text{ mA}$
DOMINANT WAVELENGTH	YELLOW/GREEN	583/564	588/569	593/574	nm	
	RED/GREEN	617/564	621/569	633/573		
REVERSE CURRENT	ALL			100	μA	$V_R = 5 \text{ V}$
VIEWING ANGLE	YELLOW/GREEN		80		Degree	
	RED/GREEN		200			

10 ma NON-DIFFUSED LED OPERATING CHARACTERISTICS AT 25°C AMBIENT FOR 553-22XX-400F)						
CHARACTERISTICS	L.E.D. COLOR	MIN	TYP	MAX	UNITS	TEST COND.
LUMINOUS INTENSITY	RED	8.7	29		mcd	I _F = 10 mA
	YELLOW	5.6	19			
	GREEN	32	50			
FORWARD VOLTAGE	RED		2.0	2.6	V	I _F = 20 mA
	YELLOW		2.1	2.6		
	GREEN		2.1	2.6		
REVERSE CURRENT	ALL			100	μA	V _R = 5 V
DOMINANT WAVELENGTH	RED		623		nm	
	YELLOW		588			
	GREEN		569			
VIEWING ANGLE	ALL		45		Degree	

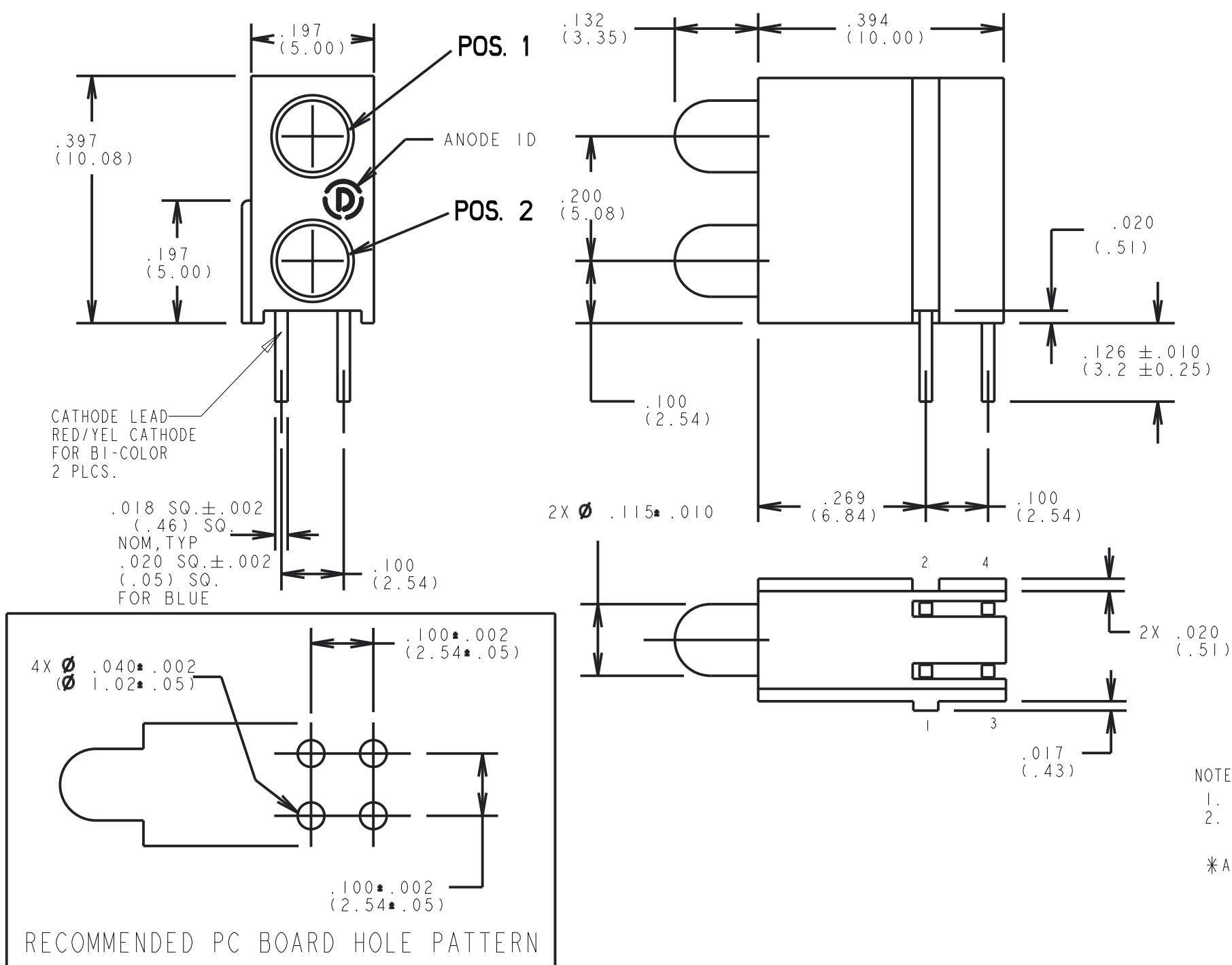
2 mA LOW CURRENT LED OPERATING CHARACTERISTICS AT 25°C AMBIENT FOR 553-02XX-400F)						
CHARACTERISTICS	L.E.D. COLOR	MIN	TYP	MAX	UNITS	TEST COND.
LUMINOUS INTENSITY	RED	1.1	2.3	5.0	mcd	I _F = 2 mA
	YELLOW	0.4	1.4	1.8		
	GREEN	0.7	1.8	3.0		
FORWARD VOLTAGE	RED		1.7	2.2	V	I _F = 2 mA
	YELLOW		1.8	2.2		
	GREEN		1.9	2.2		
REVERSE CURRENT	ALL			10	μA	V _R = 5 V
DOMINANT WAVELENGTH	RED		623		nm	
	YELLOW	584	588	592		
	GREEN	560	569	572		
VIEWING ANGLE	ALL		60		Degree	

HIGH EFFICIENCY DIFFUSED LED. OPERATING CHARACTERISTICS AT 25°C AMBIENT (FOR 553-01XX-400F)						
CHARACTERISTICS	L.E.D. COLOR	MIN	TYP	MAX	UNITS	TEST COND
LUMINOUS INTENSITY	RED	2.5	8.7		mcd	I _F = 10 m
	GREEN	5.6	12.6			
	YELLOW	3.7	8.7			
	ORANGE	19		50		
	BLUE	30	57	85		
FORWARD VOLTAGE	RED		2.0	2.6	V	I _F = 20 m
	GREEN		2.1	2.6		
	YELLOW		2.1	2.6		
	ORANGE	1.6	2.1	2.6		I _F = 10 m
	BLUE	2.5	3.2	3.8		
REVERSE CURRENT	ALL (EXCEPT BLUE)			100	μA	V _R = 5 V
	BLUE			10		
DOMINANT WAVELENGTH	RED		623		nm	
	GREEN	564	565	573		
	YELLOW	584	590	595		
	ORANGE	598	603	615		
	BLUE	460	467	475		
VIEWING ANGLE	ALL OTHERS		60		Degree	
	BLUE		100			

REV.	ECN NO.	REVISIONS	DRN.	CKD.	APP.	DATE
A	-----	NEW RELEASE	TC	---	N.O.	11-16-97
B	-----	ADDED 553-0111-400 THRU 553-0177-400, 553-0311-400 THRU 553-0333-400, 553-0711-400, 553-0744-400, 553-2211-400, 553-2222-400, 553-2233-400 & CORRESPONDING LED SPECS FOR THESE ASSEMBLIES.	DC	---	N.O.	4-3-98
C	-----	REVISED HIGH EFFICIENCY RED, GREEN & YELLOW LED SPECS.; ADDED NOTE 1.	TC	DC	N.O.	6-24-99
D	-----	ADDED P/N 553-0188-400, NOTE 2, ATTENTION NOTE AND PIN NUMBERS ON BOTTOM VIEW.	TC	DC	N.O.	10-18-99
E	-----	ADDED 553-0117-400 ADDED 553-0102-400	AV	DC	N.O.	2-14-00
F	-----	REVISED 5V, 10 mA NON-DIFF. RED, GRN & YELLOW LED SPECS.	TC	D.C.	N.O.	9-18-00
G	-----	ADDED 553-0112-400	YIS	DC	N.O.	11-6-01
H	-----	ADDED 553-0132-400 AND 553-0172-400	JAV	JMC	Y.C.	11-5-03
J	-----	ADDED 553-0121-400	JMC	---	---	-----
K	-----	UPDATED LED SPECS AND ADDED RoHS COMPLIANCE	WFB	JTD	N.O.	12-13-13
L	131506	UPDATED ORANGE SPECS	LD	CS		6-25-25

RoHS Compliant 553-XXXX-400F

Part Numbers with the "F" suffix ending are RoHS Compliant.
Example: 553-0102-400F
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.



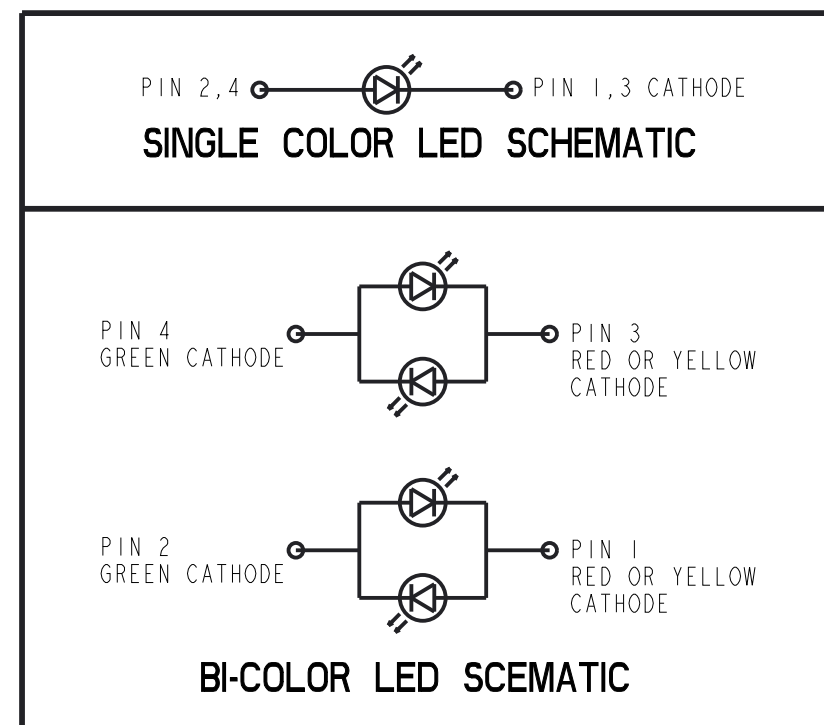
NOTE:

1. DIALIGHT PART NUMBER: 553-XXXX-400F.
2. PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.

*ATTENTION: THIS ASSEMBLY CONTAINS ELECTROSTATIC SENSITIVE DEVICES(ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IAW IPC-A-610.



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES



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SCALE: 8:1		DRAWING NUMBER	
ALL DIM'S IN: INCHES (MM)		REV	
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: $\pm 1/64$ DECIMALS (.XX): $\pm .02$ DECIMALS (.XXX): $\pm .015$ DECIMALS (.XXXX): $\pm .0005$ ANGLES: $\pm 1^\circ$		C-16311 L	
TITLES		DIN 41494 BI-LEVEL	
MATERIAL			
FINISH		 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
FSCM 83330			
SHEET		OF 1	
FAMILY TABLES:			