

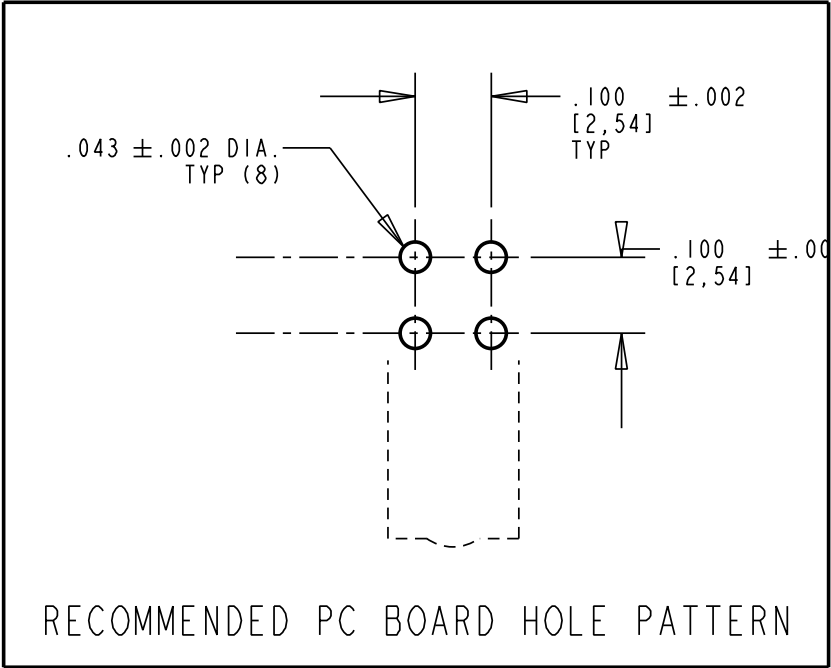
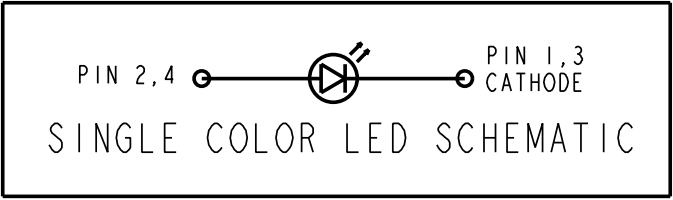
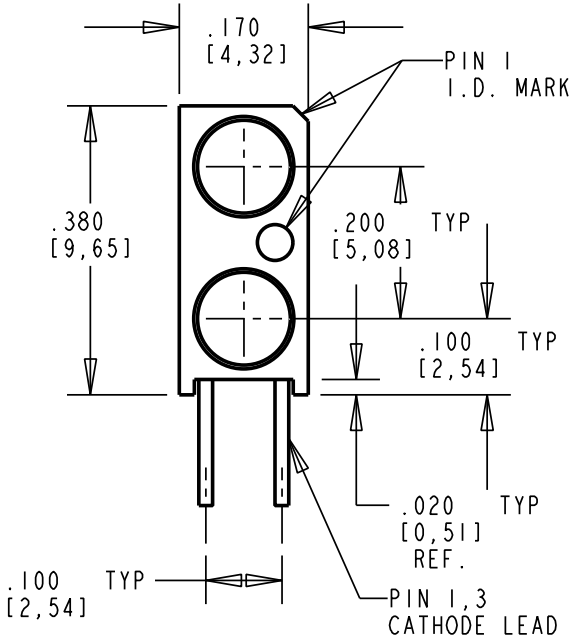
PART NUMBER	LED COLOR	
	POS. 1	POS. 2
553-2210-100F	RED	BLANK
553-2211-100F	RED	RED
553-2212-100F	RED	GREEN
553-2213-100F	RED	YELLOW
553-2220-100F	GREEN	BLANK
553-2221-100F	GREEN	RED
553-2222-100F	GREEN	GREEN
553-2223-100F	GREEN	YELLOW
553-2231-100F	YELLOW	RED
553-2232-100F	YELLOW	GREEN
553-2233-100F	YELLOW	YELLOW
553-2299-100F	WHITE	WHITE

COLOR BIN LIMIT SPECIFICATIONS OF WHITE LED					
BIN	CHROMATICITY COORDINATES				
1	x	0.330	0.330	0.356	0.361
	y	0.360	0.318	0.351	0.385
2	x	0.287	0.296	0.330	0.330
	y	0.295	0.276	0.318	0.339
3	x	0.264	0.280	0.296	0.283
	y	0.267	0.248	0.276	0.305
4	x	0.283	0.287	0.330	0.330
	y	0.305	0.295	0.339	0.360
TOLERANCE FOR EACH COLOR BIN LIMIT IS ±0.01.					

INTENSITY BIN LIMITS OF WHITE LED (mcd @ I _F =20mA)		
BIN	MIN	MAX
Q	1150	1500
R	1500	1900
S	1900	2500
TOLERANCE FOR EACH BIN LIMIT IS ±15%.		

OPERATING CHARACTERISTICS AT 25°C AMBIENT						
CHARACTERISTICS	COLOR	MIN	TYP	MAX	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	RED	8.7	29.0	—	mcd	I _F = 10 mA
	GREEN	32	50	—		
	YELLOW	10	—	50		
	WHITE	950*	—	2900*		I _F = 20 mA
FORWARD VOLTAGE	RED	—	2.0	2.8	V	I _F = 20 mA
	GREEN	—	2.1	2.8		
	YELLOW	—	2.1	2.8		
	WHITE	—	3.2	3.7		
REVERSE CURRENT	RED	—	—	100	μA	V _R = 5 V
	GREEN	—	—	100		
	YELLOW	—	—	100		
	WHITE	10	—	—		
PEAK WAVELENGTH	RED	—	635	—	nm	
	GREEN	—	565	—		
	YELLOW	—	585	—		
	WHITE	—	—	—		
VIEWING ANGLE	ALL	45			DEGREE	

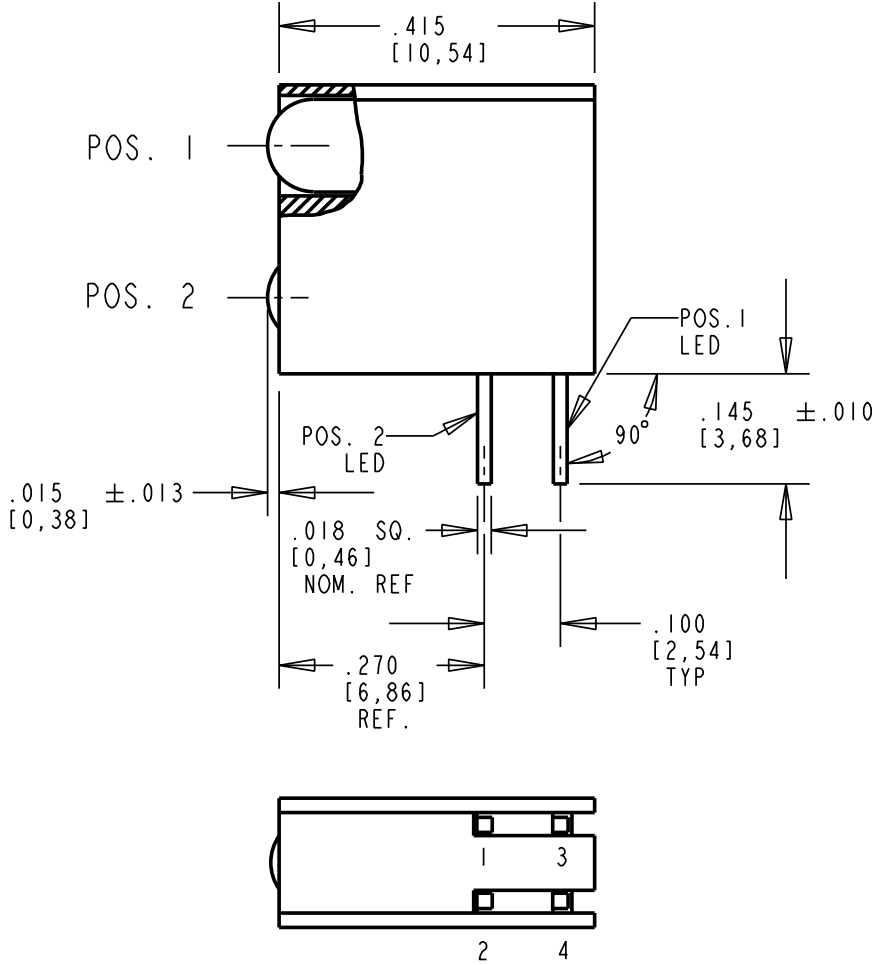
ABSOLUTE MAXIMUM RATING AT 25°C AMBIENT		COLOR	VALUE	UNITS
POWER DISSIPATION		RED	100	mW
		GREEN	100	
		YELLOW	60	
		WHITE	111	
DERATE LINEARLY FROM 50°C		RED	0.4	mA/°C
DERATE LINEARLY FROM 50°C		GREEN	0.4	
DERATE LINEARLY FROM 50°C		YELLOW	0.25	
DERATE LINEARLY FROM 37°C		WHITE	0.42	
CONTINUOUS FORWARD CURRENT		RED	30	mA
		GREEN	30	
		YELLOW	20	
		WHITE	30	
LEAD SOLDERING TEMPERATURE, 5 SEC., 1/16" FROM BODY		ALL	260	°C
OPERATING TEMPERATURE		RED	-55 TO +100	°C
		GREEN	-55 TO +100	
		YELLOW	-55 TO +100	
		WHITE	-40 TO +85	
STORAGE TEMPERATURE		RED	-55 TO +100	°C
		GREEN	-55 TO +100	
		YELLOW	-55 TO +100	
		WHITE	-40 TO +100	



NOTES:

- LEADS TO FIT INTO HOLES SPACED AS PER HOLE PATTERN.
- LEADS TO BE FREE OF DEFORMATION AFTER BENDING AND CUTTING.
- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PARTS.
- DIALIGHT PART NUMBERS: 553-22XX-100F
- * THESE VALUES REFLECT A 15% TOLERANCE IN BINNING. WITHOUT THE 15% TOLERANCE, THE MINIMUM IS 1150mcd AND THE MAXIMUM IS 2500mcd.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	KLJ			



RoHS Compliant 553-22XX-100F

Part Numbers with the "F" suffix ending are RoHS Compliant. For example: 553-2222-100F. 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.



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE PROPERTY OF DIALIGHT. REPRODUCTION OF THIS DRAWING OR CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF DIALIGHT.		
SCALE: DRAWING SCALE ALL DIM'S IN: INCHES (MM)	DRAWING NUMBER C-17572	REV A
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	TITLE BI-LEVEL CBI ARRAY RoHS COMPLIANT	
FINISH:	MATERIAL	
	Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727	
	SHEET 1 OF 1 FAMILY TABLE:	