

OPERATING CHARACTERISTICS AT 25°C AMBIENT

	COLOR	MIN	TYP	MAX	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	WHITE	1150		2500	mcd	$I_f = 20\text{mA}$
	BLUE	7.1	12.5	18.0		
	GREEN	5.6	16.0			$I_f = 10\text{mA}$
FORWARD VOLTAGE	WHITE		3.2	3.7	V	$I_f = 20\text{mA}$
	BLUE		3.5	4.1		
	GREEN		2.1	3.0		$I_f = 10\text{mA}$
PEAK WAVELENGTH	WHITE		—		nm	
	BLUE		428			
	GREEN		563			
DOMINANT WAVELENGTH	WHITE		—		nm	
	BLUE	462	465	468		
	GREEN		—			
VIEWING ANGLE	WHITE		45		Degree	
	BLUE		70			
	GREEN		45			

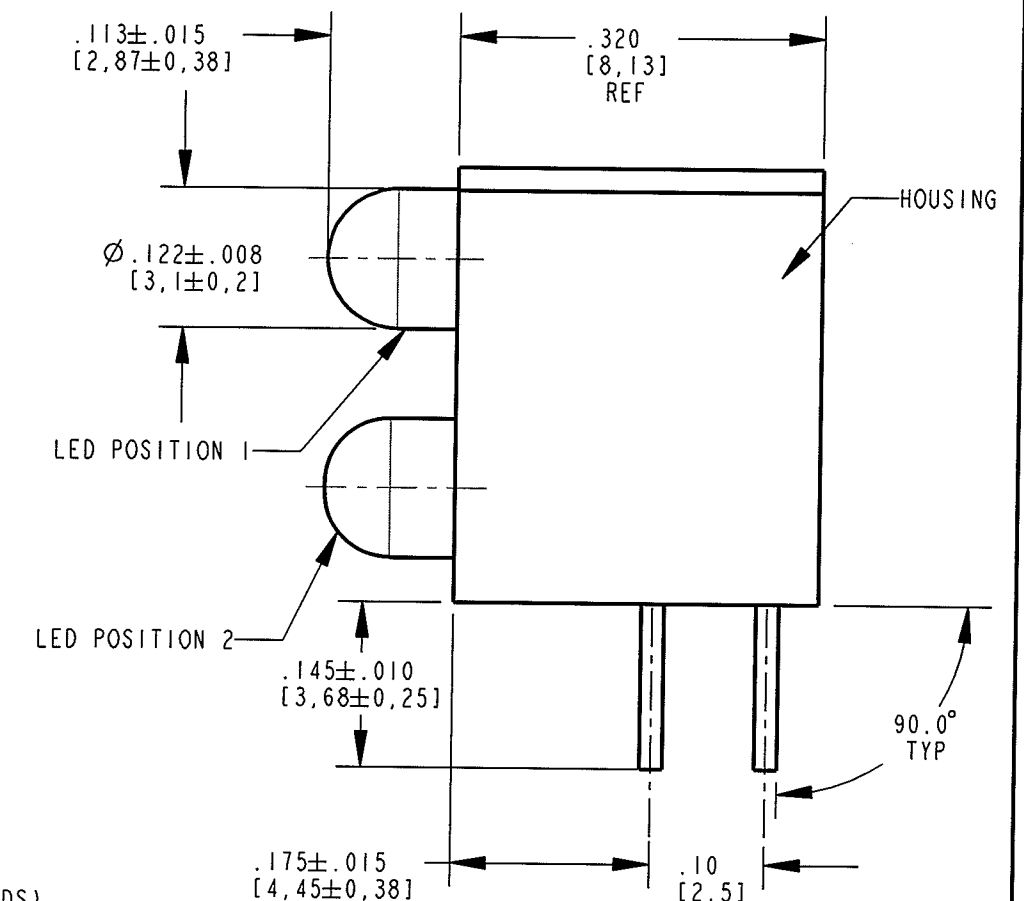
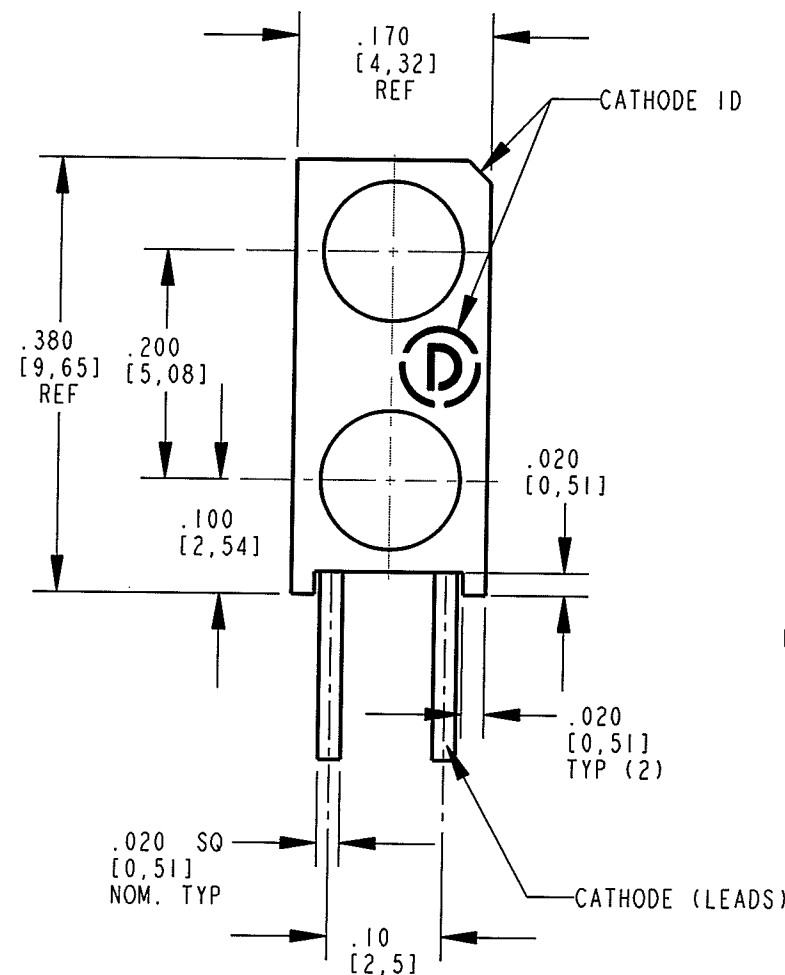
COLOR BIN LIMIT SPECIFICATIONS OF WHITE LED					
BIN		CHROMATICITY COORDINATES			
1	x	0.330	0.330	0.356	0.361
	y	0.360	0.318	0.351	0.385
2	x	0.287	0.296	0.330	0.330
	y	0.295	0.276	0.318	0.339
3	x	0.264	0.280	0.296	0.283
	y	0.267	0.248	0.276	0.305
4	x	0.283	0.287	0.330	0.330
	y	0.305	0.295	0.339	0.360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

ABSOLUTE MAXIMUM RATING AT 25 °C AMBIENT

	COLOR	UNITS
POWER DISSIPATION	WHITE	111
	BLUE	90
	GREEN	75
DERATE LINEARLY FROM 37°C	WHITE	0.42
DERATE LINEARLY FROM 50°C	BLUE	0.44
	GREEN	0.5
CONTINUOUS FORWARD CURRENT	WHITE	30
	BLUE	20
	GREEN	25
PEAK FORWARD CURRENT	WHITE	100
	BLUE	—
	GREEN	60
REVERSE VOLTAGE	WHITE	5
	BLUE	5
	GREEN	3
LEAD SOLDERING TEMPERATURE, 5 SEC., 1/16" FROM BODY	ALL	260
OPERATING TEMPERATURE	WHITE	-40 TO +85
	BLUE	-55 TO +100
	GREEN	-25 TO +85
STORAGE TEMPERATURE	WHITE	-40 TO +100
	BLUE	-55 TO +100
	GREEN	-30 TO +100

PART NUMBER	LED COLOR	
	POSITION 1	POSITION 2
553-0001-807F	WHITE	GREEN DIFFUSED
553-0001-808F	WHITE	BLUE DIFFUSED

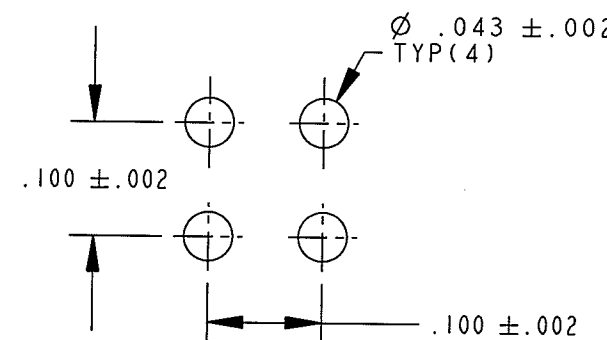
REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	SM	MES	N.O.	8-28-06
B	—	UPDATED WHITE LED SPECS	KLJ	2.0	2.0	2-1-08



RoHS Compliant 553-0001-80XF
 Part Numbers with the "F" suffix ending are RoHS Compliant.
 Example: 553-0001-807F
 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



RECOMMENDED PC BOARD
 HOLE PATTERN

NOTES:

- LEADS TO BE FIT INTO HOLES .040 DIA. SPACED AS PER PATTERN.
- SEE TABLE FOR DIALIGHT PART NUMBER
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.

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: 8.000	DRAWING NUMBER C-17422	REV B
ALL DIM'S IN: INCHES (MM)		
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE 3 mm LED BI- LEVEL CBI RoHS COMPLIANT	
FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	MATERIAL -	
FINISH: -	Dialight FARMINGDALE, NJ 07727	1501 ROUTE 34 SOUTH
FSCM 83330	SHEET 1 OF 1 FAMILY TABLE:	