

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			

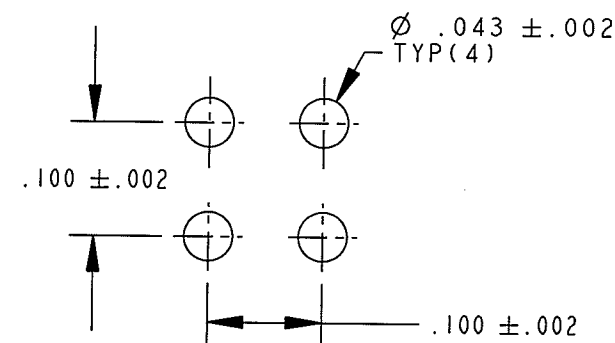
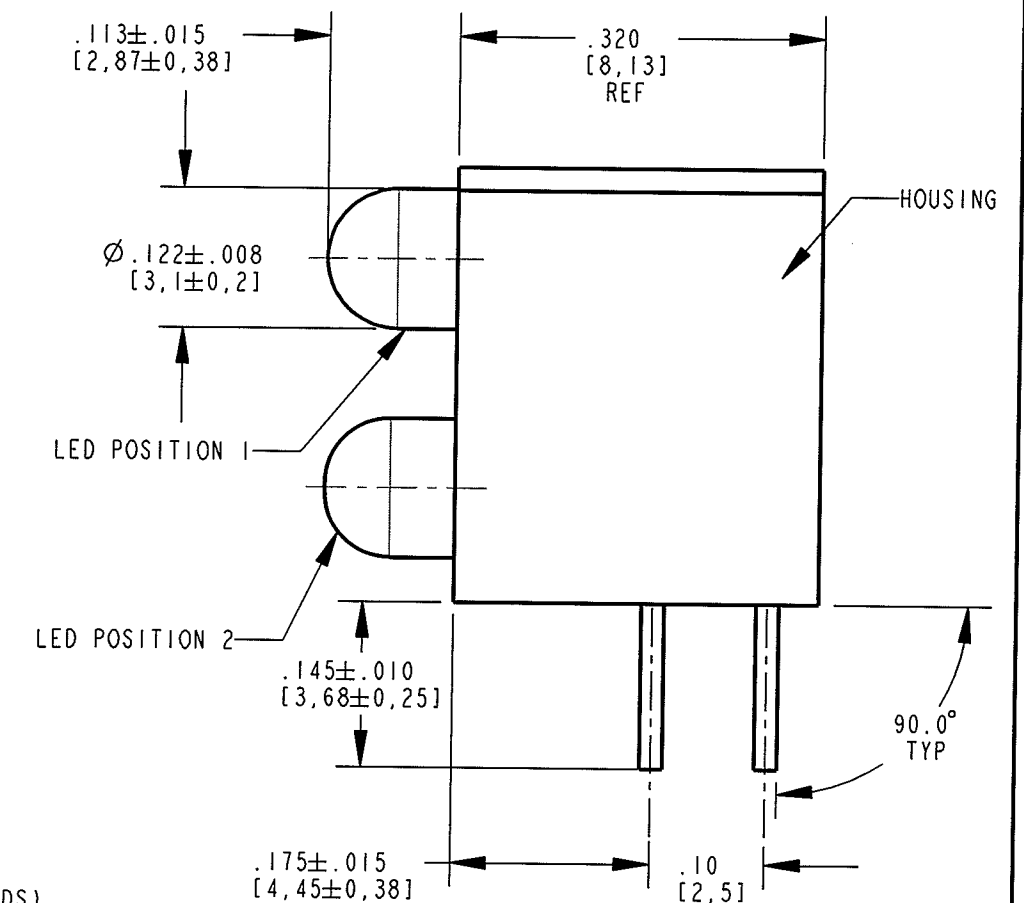
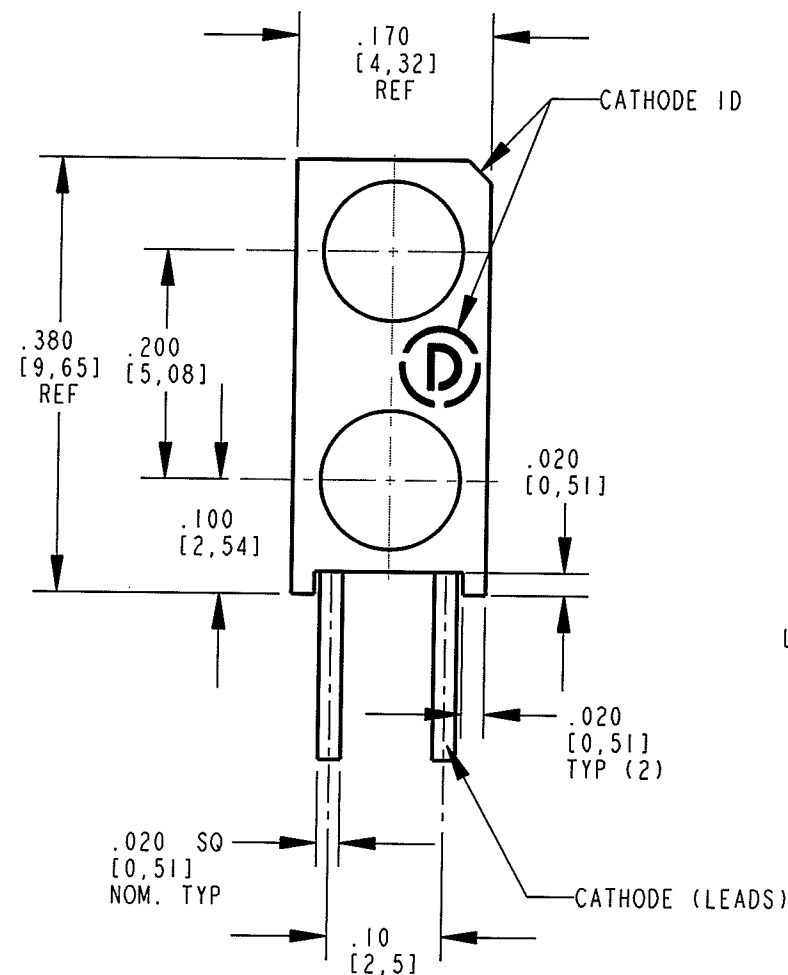
COLOR BIN LIMIT SPECIFICATIONS OF WHITE LED					
BIN		CHROMATICITY COORDINATES			
1	x	0.330	0.330	0.356	0.361
	y	0.360	0.318	0.351	0.385
2	x	0.287	0.296	0.330	0.330
	y	0.295	0.276	0.318	0.339
3	x	0.264	0.280	0.296	0.283
	y	0.267	0.248	0.276	0.305
4	x	0.283	0.287	0.330	0.330
	y	0.305	0.295	0.339	0.360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



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.

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

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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	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727
FSCM 83330	SHEET 1 OF 1 FAMILY TABLE:	

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Dialight:

[553-0001-808F](#) [553-0001-807F](#)