

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Dialight](#)
[5530001807F](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



Distributor of Dialight: Excellent Integrated System Limited
Datasheet of 5530001807F - LED CBI 3MM BI-LVL WHT/GRN DIFF

OPERATING CHARACTERISTICS AT 25°C AMBIENT

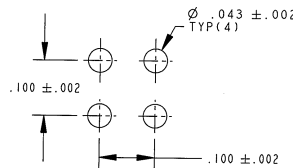
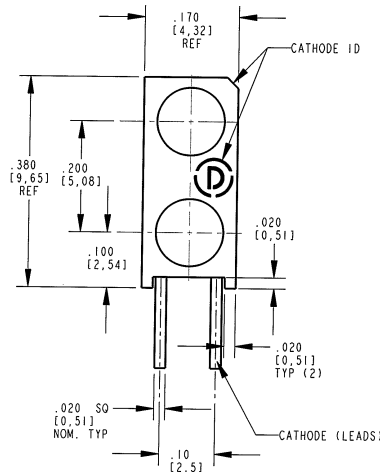
	COLOR	MIN	TYP	MAX	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	WHITE	1150		2500	mcd	If = 20mA
	BLUE	7.1	12.5	18.0		If = 10mA
	GREEN	5.6	16.0			If = 20mA
FORWARD VOLTAGE	WHITE		3.2	3.7	V	If = 20mA
	BLUE		3.5	4.1		If = 10mA
	GREEN		2.1	3.0		
PEAK WAVELENGTH	WHITE				nm	
	BLUE		428			
	GREEN		563			
DOMINANT 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
	y	0.360	0.318	0.351
2	x	0.287	0.296	0.330
	y	0.295	0.276	0.318
3	x	0.264	0.280	0.296
	y	0.267	0.248	0.276
4	x	0.283	0.287	0.330
	y	0.305	0.295	0.339
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	60
	GREEN	5
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

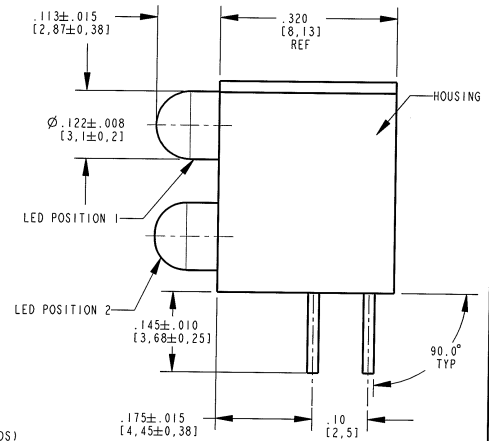


RECOMMENDED PC BOARD HOLE PATTERN

NOTES:

1. LEADS TO BE FIT INTO HOLES .040 DIA. SPACED AS PER PATTERN.
2. SEE TABLE FOR DIALIGHT PART NUMBER
3. 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	SM	MES	N.O.	8-28-06
B		UPDATED WHITE LED SPECS	KLJ	2.8	12-1-08	



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

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