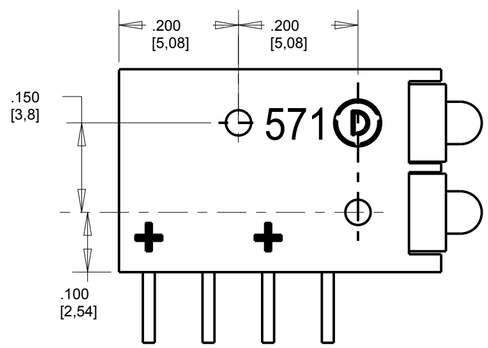
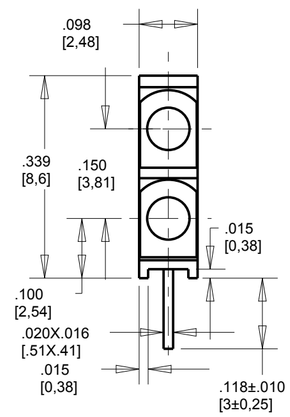
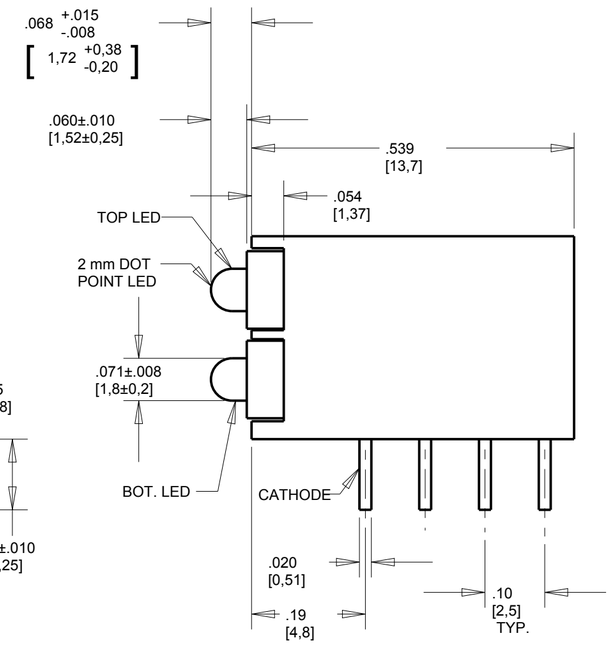
ASSY. NO.	LED COLOR (DIFFUSED)	
	TOP POSITION	BOTTOM POSITION
571-0101F	BLANK	RED
571-0102F	BLANK	GREEN
571-0103F	BLANK	YELLOW
571-0110F	RED	BLANK
571-0111F	RED	RED
571-0112F	RED	GREEN
571-0113F	RED	YELLOW
571-0120F	GREEN	BLANK
571-0121F	GREEN	RED
571-0122F	GREEN	GREEN
571-0123F	GREEN	YELLOW
571-0130F	YELLOW	BLANK
571-0131F	YELLOW	RED
571-0132F	YELLOW	GREEN
571-0133F	YELLOW	YELLOW

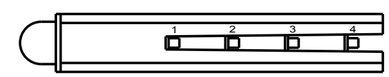
RoHS Compliant 571-01XXF
Part Numbers with the "F" suffix ending are RoHS Compliant.
Example: 571-0112F
Packaging is marked with "RoHS Compliant" label or equivalent markings.
Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 255°C temp. for 5 sec.

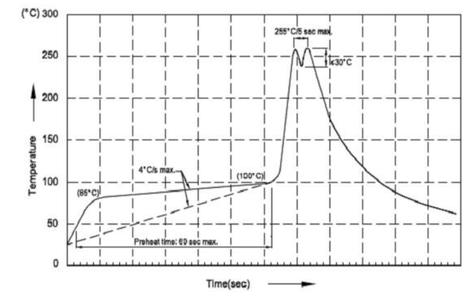
REV	REVISIONS	DRN	CKD	APP	DATE
A	NEW RELEASE	CE	AE	NO	1-24-08
B	ADDED WAVE SOLDERING PROFILE & NOTES 5,6,7,8,9	AJF	KLJ	NO	9-21-11
C	UPDATED NOTE 5 TO HAVE SOLDERING TIME. ADDED DIMENSION OF DOME LENGTH ON LED	VP	JTD	NO	3-14-16
D	REVISED POWER DISSIPATION & FORWARD VOLTAGE OF YELLOW AND GREEN	LD		NO	7-18-19





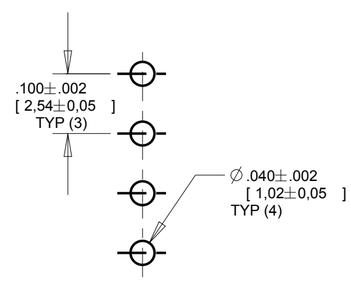






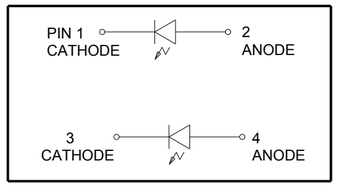
RECOMMENDED WAVE SOLDERING PROFILE

OPERATING CHARACTERISTICS AT 25° C AMBIENT						
CHARACTERISTICS	COLOR	MIN	TYP	MAX	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	RED	8	15		mcd	I_F = 10 mA
	YELLOW	5	8			
	GREEN	6	20			
FORWARD VOLTAGE	RED		2.0	2.5	V	I_F = 20 mA
	YELLOW		1.95	2.5		
	GREEN		2.0	2.5		
DOMINANT WAVELENGTH	RED		625		nm	
	YELLOW		588			
	GREEN		568			
PEAK EMISSION WAVELENGTH	RED		627		nm	
	YELLOW		590			
	GREEN		565			
VIEWING ANGLE 2θ 1/2	RED		70		Degree	
	YELLOW		70			
	GREEN		70			
CAPACITANCE	RED		15		pF	V_F = 0 V, f = 1 MHz
	YELLOW		20			
	GREEN		15			



RECOMMENDED PC BOARD HOLE PATTERN

LED SCHEMATIC



ABSOLUTE MAXIMUM RATING AT 25°C AMBIENT	RED	YELLOW	GREEN	UNITS
POWER DISSIPATION	105	75	62.5	mW
FORWARD CURRENT	30	30	25	mA
DERATING LINEAR FROM 25 ° C	.40		.33	mA/° C
REVERSE VOLTAGE	5			V
LEAD SOLDERING TEMPERATURE, 3 SEC., 1/16" FROM BODY	260			°C
OPERATING TEMPERATURE	-40 TO +85			°C
STORAGE TEMPERATURE	-40 TO +85			°C

NOTES:

1. LED LEAD DIMENSIONS ARE MEASURED AT HOUSING EXIT.
2. PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PARTS
3. DIALIGHT PART NUMBERS: 571-01XXF
4. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH 1PC-A-610.
5. RECOMMENDED WAVE SOLDERING TEMPERATURE: 245° C~255° C FOR 3 SEC (5 SEC MAX)
6. DO NOT APPLY STRESS TO THE EPOXY RESIN WHEN TEMPERATURE IS ABOVE 85° C.
7. SOLDERING PROFILE APPLIES TO LEAD FREE SOLDERING PROCESS (Sn/Cu/Ag ALLOY).
8. DURING WAVE SOLDERING, THE PCB TOP SURFACE SHOULD BE KEPT BELOW 105° C.
9. DO NOT SOLDER MORE THAN ONCE.

ATTENTION:
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

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SCALE: DRAWING SCALE
ALL DIM'S IN: INCHES (MM)
TOLERANCES: UNLESS OTHERWISE SPECIFIED
FRACTIONS: ±1/64
DECIMALS (.XX): ±.01
DECIMALS (.XXX): ±.005
DECIMALS (.XXXX): ±.0005
ANGLES: ±1°
FINISH
FSCM 83330

DRAWING NUMBER: C-17454
REV: D
TITLE: 2mm LED BI-LEVEL CBI RoHS COMPLIANT
MATERIAL

Dialight
1501 ROUTE 34 SOUTH
FARMINGDALE, NJ 07727
(732) 919-3119
www.dialight.com

SHEET 1 OF 1
FAMILY TABLE: