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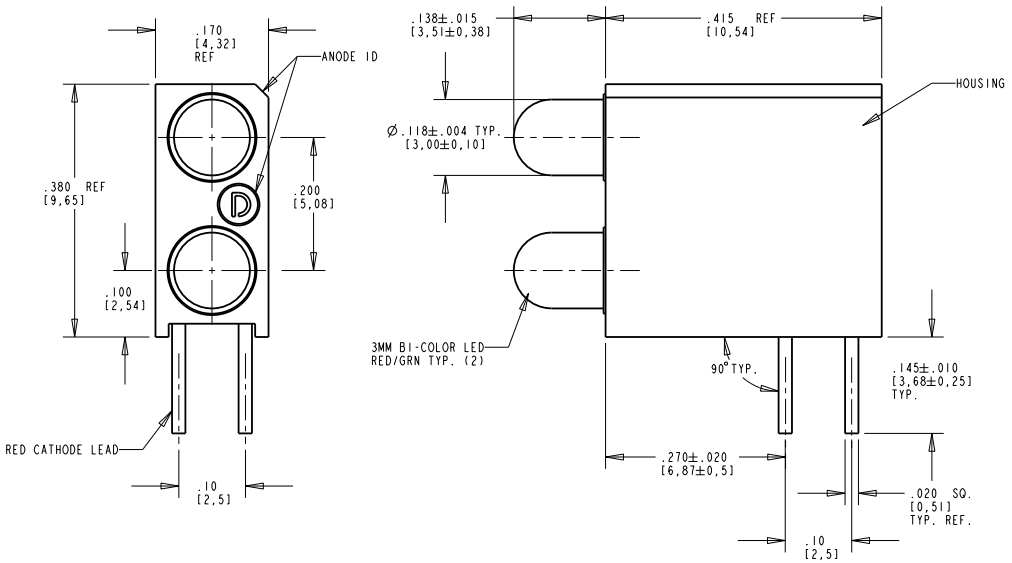
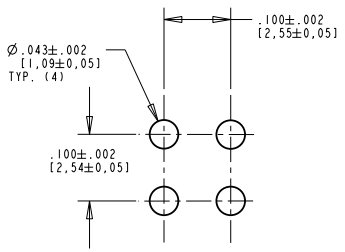
REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	———	NEW RELEASE	ALV			

PART NUMBER	LED COLOR	
	POSITION 1	POSITION 2
553-0711-200F	RED/GREEN	RED/GREEN
553-0741-200F	YELLOW/GREEN	RED/GREEN
553-0744-200F	YELLOW/GREEN	YELLOW/GREEN





RECOMMENDED PC BOARD HOLE PATTERN

NOTES:

1. MILIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.
2. LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
3. PIN NUMBER FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
4. DILAIGHT PART NUMBERS: 553-0711-200F, 553-0741-200F & 553-744-200F.
5. 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 553-07XX-200F Thru hole Bi-level CBI

Part Numbers with the "F" suffix ending are RoHS Compliant.
Example: 553-0711-200F
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.

YELLOW/GREEN LED

ABSOLUTE MAXIMUM RATINGS AT 25 C AMBIENT

	GREEN	YELLOW	UNITS
POWER DISSIPATION	100	60	mW
DERATE LINEARLY FROM 50 ° C	0.4	0.25	mA/ ℃
CONTINUOUS FORWARD CURRENT	30	20	mA
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)	120	80	mA
LEAD SOLDERING TEMPERATURE, 5 SEC., 1/16" FROM BODY	260		℃
OPERATING TEMPERATURE	-55 TO +100		℃
STORAGE TEMPERATURE	-55 TO +100		℃

OPERATING CHARACTERISTICS AT 25 C AMBIENT

LED CHARACTERISTICS	COLOR	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	GREEN YELLOW	2.5 2.5	6.3 4.3		mcd	I_F = 10 mA
FORWARD VOLTAGE	GREEN YELLOW		2.1	2.8	V	I_F = 20 mA
PEAK WAVELENGTH (λ_p)	GREEN YELLOW		565 585		nm	
DOMINANT WAVELENGTH (λ_d)	GREEN YELLOW (Y3) YELLOW (Y2)	585 583	569	589 587	nm	MEASURED ON EXELTRON 2001
VIEWING ANGLE (2 Θ 1/2)	GREEN YELLOW		80		DEGREES	
CAPACITANCE	GREEN YELLOW		35 15		pF	V_R =0 V, f=1 MHz

RED/GREEN LED

ABSOLUTE MAXIMUM RATINGS AT 25 C AMBIENT

POWER DISSIPATION	100 mW
DERATE LINEARLY FROM 50 ℃	.40 mA/℃
CONTINUOUS FORWARD CURRENT	30 mA
PEAK FORWARD CURRENT (10 ms PULSE WIDTH, 1/10 DUTY)	120 mA
PEAK REVERSE VOLTAGE	5 V
LEAD SOLDERING TEMPERATURE, 6 SEC., 1/16" FROM BASE	260° C
OPERATING TEMPERATURE	-55° C TO +100° C
STORAGE TEMPERATURE	-55° C TO +100° C

OPERATING CHARACTERISTICS AT 25 C AMBIENT

LED CHARACTERISTICS	COLOR	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	GREEN RED	3.7 2.5	10.0 4.7		mcd	I_F = 10 mA
FORWARD VOLTAGE	GREEN RED		2.1 2.0	2.8	V	I_F = 20 mA
REVERSE CURRENT	GREEN RED			100	µA	V_R = 5 V
PEAK WAVELENGTH	GREEN RED		565 635		nm	I_F = 20 mA
2 X 1/2-INTENSITY ANGLE	GREEN RED		60		DEGREES	I_F = 20 mA
CAPACITANCE	GREEN RED		35 20		pF	V_R =0 V, f=1 MHz

ATTENTION:
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

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SCALE: 5.000
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-17530
REV A

TITLE 3MM BI-LEVEL CBI WITH BI-COLOR LED RoHS COMPLIANT

MATERIAL

Dialight
1501 ROUTE 34 SOUTH
FARMINGDALE, NJ 07727

SHEET 1 OF 1 FAMILY TABLES: