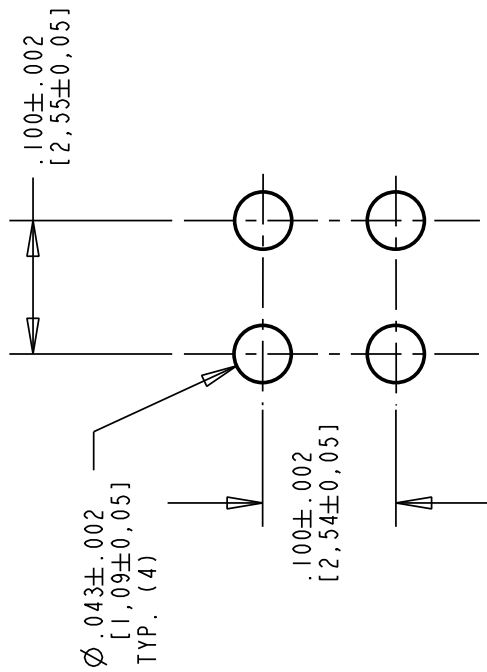
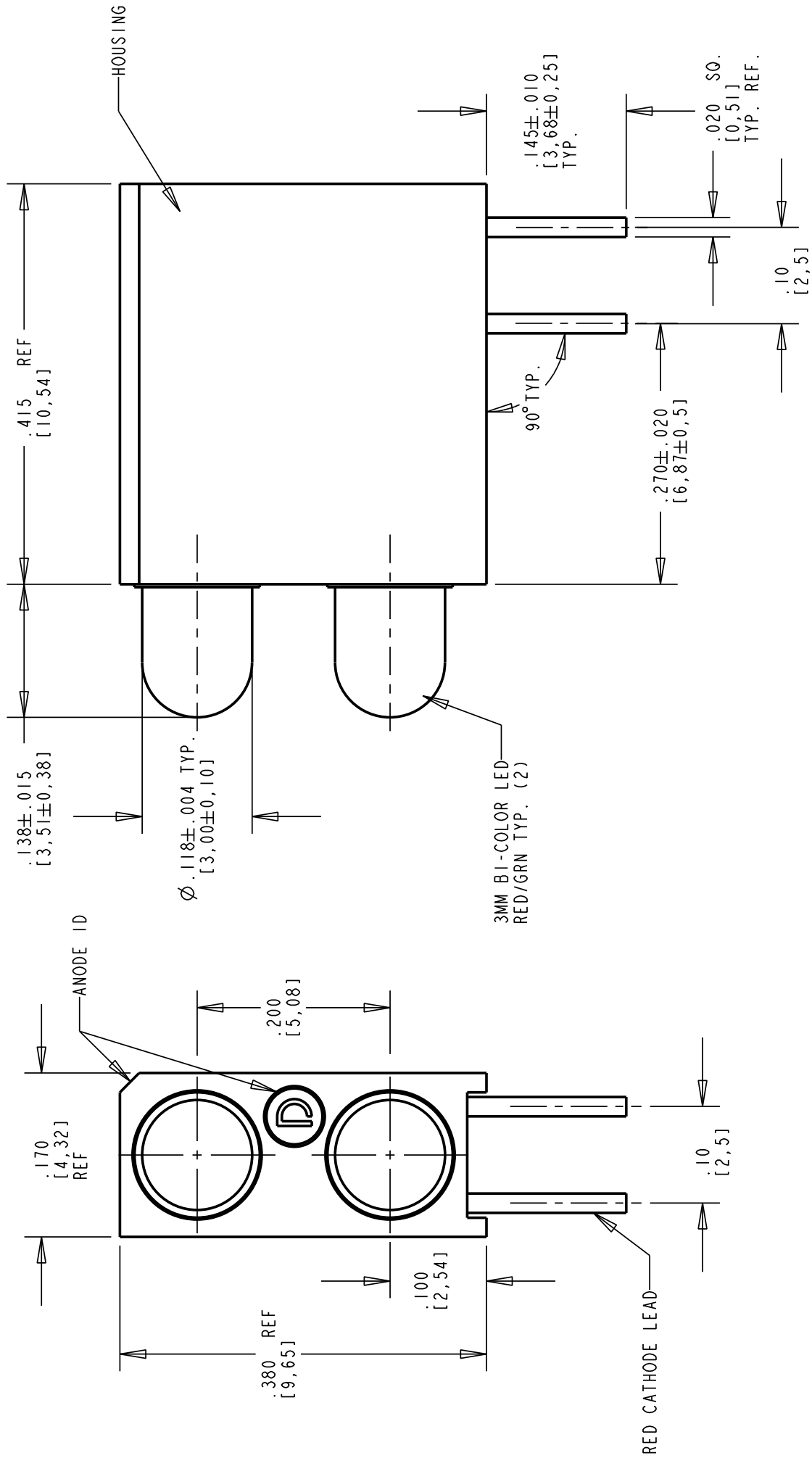


PART NUMBER	LED COLOR	
	POSITION 1	POSITION 2
553-0711-200F	RED/GREEN	RED/GREEN
553-0741-200F	YELLOW/GREEN	RED/GREEN
553-0744-200F	YELLOW/GREEN	YELLOW/GREEN



## RECOMMENDED PC BOARD HOLE PATTERN

POWER DISSIPATION	100 mW
DERATE LINEARLY FROM 50 °C	.40 mA/°C
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

RED/GREEN LED

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

OPERATING CHARACTERISTICS AT 25 °C AMBIENT

	<p>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.</p>		REV	A
	SCALE: 5.000	DRAWING NUMBER	C-17530	
<p>ALL DIM'S IN: INCHES (MM)</p> <p>TOLERANCES: UNLESS OTHERWISE SPECIFIED</p> <p>FRACTIONS: ±.1/64 DECIMALS: ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°</p>		<p>TITLE 3MM BI-LEVEL GBI WITH BI-COLOR LED</p> <p>RoHS COMPLIANT</p> <p>MATERIAL</p>		
FINISH:		<p>1501 ROUTE 34 SOUTH FARMINGDALE, NY 11737</p>		



**ATTENTION:**  
**RECEIVE PRECAUTIONS FOR**  
**HANDLING ELECTROSTATIC**  
**SENSITIVE DEVICES**

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SCALE: 5.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-17530	A
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE 3MM BI-LEVEL CLIP WITH BI-COLOR LED	
FRACTIONS: ±1/64	MATERIAL	
DECIMALS (.XX): ±.01	RoHS COMPLIANT	
DECIMALS (.XXX): ±.005		
ANGLES: ±1°		
FINISH:	Dialight	
	1501 ROUTE 34 SOUTH FARMINGDALE N.Y. 11737	

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NOTES:

1. 1. MILLIMETER 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: 553-0111-200F  
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			
DERATE LINEARLY FROM 50 °C	100	60	mW
CONTINUOUS FORWARD CURRENT	0.4	0.25	mA / °C
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)	30	20	mA
LEAD SOLDERING TEMPERATURE, 5 SEC., 1/16" FROM BODY	120	80	°C
OPERATING TEMPERATURE	-55 TO +100	260	°C
STORAGE TEMPERATURE	-55 TO +100		°C

### 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		mc d	$I_f = 10 \text{ mA}$
FORWARD VOLTAGE	GREEN YELLOW		2.1	2.8	V	$I_f = 20 \text{ mA}$
PEAK WAVELENGTH ( $\lambda_p$ )	GREEN YELLOW		565 585		nm	
DOMINANT WAVELENGTH ( $\lambda_d$ )	GREEN (Y3) YELLOW (Y2)	585 583	569	589 587	nm	MEASURED ON EXELTRON 2001
VIEWING ANGLE ( $2\Theta$ 1/2 )	GREEN YELLOW		80		DEGREES	
CAPACITANCE	GREEN YELLOW		35 15		pF	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$

POWER DISSIPATION	100 mW
DERATE LINEARLY FROM 50 °C	.40 mA/°C
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

**RED/GREEN LED**

**ABSOLUTE MAXIMUM RATINGS 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	$I_F = 10 \text{ mA}$
FORWARD VOLTAGE	GREEN RED		2.1 2.0	2.8	V	$I_F = 20 \text{ mA}$
REVERSE CURRENT	GREEN RED			100	$\mu\text{A}$	$V_R = 5 \text{ V}$
PEAK WAVELENGTH	GREEN RED		565 635		nm	$I_F = 20 \text{ mA}$
2 X 1/2-INTENSITY ANGLE	GREEN RED		60		DEGREES	$I_F = 20 \text{ mA}$
CAPACITANCE	GREEN RED		35 20		pF	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$

**OPERATING CHARACTERISTICS AT 25 °C AMBIENT**

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	SCALE: 5.000	DRAWING NUMBER	C-17530	
<p>ALL DIM'S IN: INCHES (MM)</p> <p>TOLERANCES: UNLESS OTHERWISE SPECIFIED</p> <p>FRACTIONS: ±.1/64 DECIMALS: ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°</p>		<p>TITLE 3MM BI-LEVEL CBI WITH BI-COLOR LED</p> <p>RoHS COMPLIANT</p> <p>MATERIAL</p>		
FINISH:		<p>1501 ROUTE 34 SOUTH FARMINGDALE, NY 11737</p>		

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# Mouser Electronics

Authorized Distributor

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

Dialight:

[553-0744-200F](#) [553-0741-200F](#)