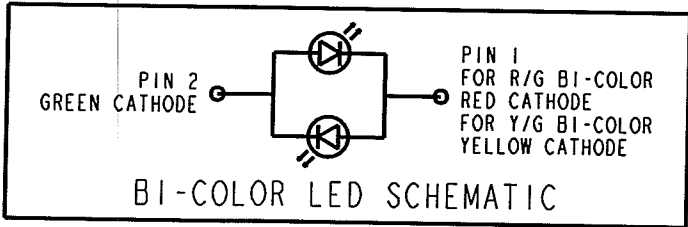


PART NUMBER	LED COLOR	
	POS. 1	POS. 2
553-0211-100F	RED	RED
553-0221-100F	GREEN	RED
553-0222-100F	GREEN	GREEN
553-0223-100F	GREEN	YELLOW
553-0233-100F	YELLOW	YELLOW
553-0322-100F	GREEN, 5V	GREEN, 5V
553-0710-100F	RED/GREEN BI-COLOR	BLANK
553-0744-100F	YELLOW/GREEN BI-COLOR	YELLOW/GREEN BI-COLOR



RoHS COMPLIANT 553-0XXX-100F

Part Numbers with the "F" suffix ending are RoHS Compliant. For example: 553-0222-100F

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.

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A		NEW RELEASE	KLJ	7.8.	7/9/08	

NOTES:

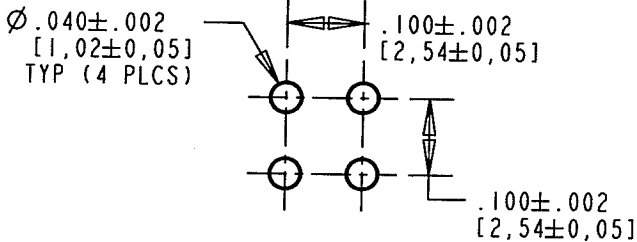
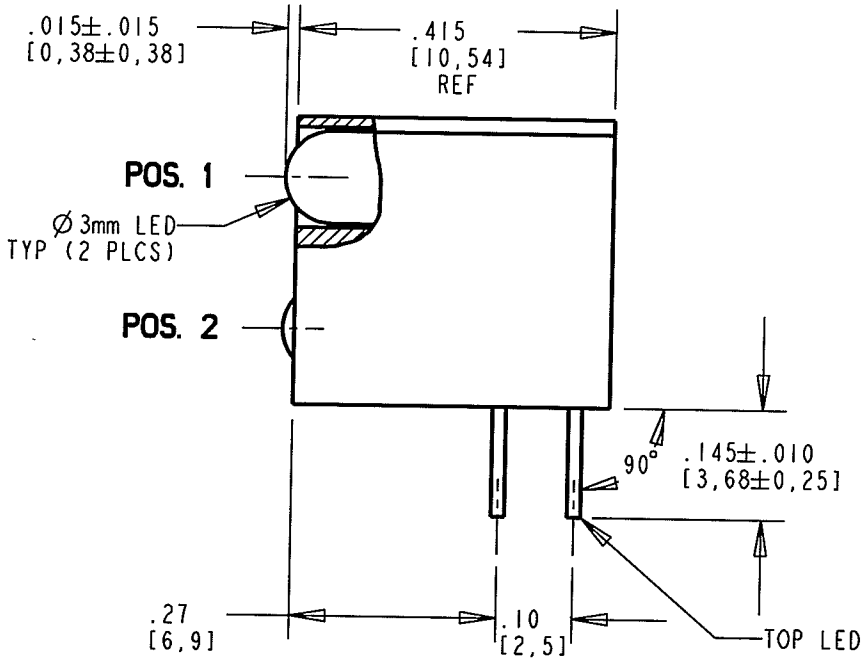
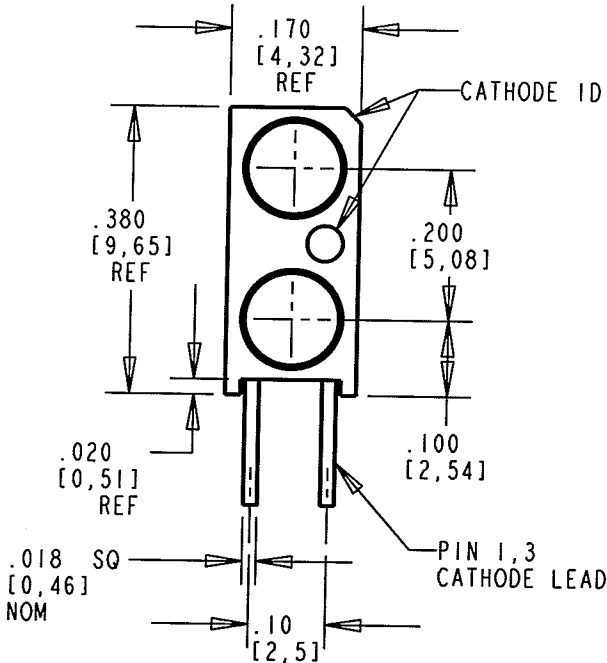
- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
- PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- DIALIGHT PART NUMBERS: 553-0XXX-100F.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT FOR BI-COLOR LEDS		R/G BI-COLOR		Y/G BI-COLOR		UNITS
		RED	GREEN	YELLOW	GREEN	
POWER DISSIPATION		100	60	100		mW
CONTINUOUS FORWARD CURRENT		30	20	30		mA
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 10 ms PULSE WIDTH)		120	80	120		mA
DERATING LINEAR FROM 50°C		0.4	0.25	0.4		mA/°C
REVERSE VOLTAGE		5				V
SOLDERING TEMPERATURE (.063" FROM BODY FOR 5 SECONDS)		260				°C
OPERATING TEMPERATURE		-55 TO +100				°C
STORAGE TEMPERATURE		-55 TO +100				°C

BI-COLOR LED OPERATING CHARACTERISTICS AT Ta = 25°C								
LED	COLOR	PEAK WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)	VIEWING ANGLE (°)	LUMINOUS INTENSITY (mcd) @ If=10 mA		FORWARD VOLTAGE (V) @ If=20 mA	
		TYP	TYP	TYP	MIN	TYP	TYP	MAX
RED/GREEN BI-COLOR	RED	635	—	60	2.5	4.7	2.0	2.8
	GREEN	565	—		3.7	10.0	2.1	2.8
YELLOW/GREEN BI-COLOR	YELLOW	585	586	80	2.5	4.3	2.1	2.8
	GREEN	565	569		2.5	6.3	2.1	2.8

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT FOR SINGLE COLOR LEDS	LED COLOR				UNITS
	RED DIFF	GREEN DIFF	YELLOW DIFF	GREEN DIFF, 5V	
POWER DISSIPATION	20	20	20	—	mW
CONTINUOUS FORWARD CURRENT	7	7	7	—	mA
DC FORWARD VOLTAGE	—	—	—	7.5	V
PEAK FORWARD CURRENT (0.01 ms PULSE WIDTH)	120	60	80	—	mA
DERATING LINEAR FROM 90°C (50°C FOR 5V GREEN)	0.7	0.7	0.7	0.086 (V/°C)	mA/°C
REVERSE VOLTAGE	5				V
SOLDERING TEMPERATURE (.063 in FROM BODY)	260 FOR 5 SECONDS				°C
OPERATING TEMPERATURE	-55 TO +100			-40 TO +85	°C
STORAGE TEMPERATURE	-55 TO +100				°C

SINGLE COLOR LED OPERATING CHARACTERISTICS AT TA = 25°C										
COLOR	PEAK EMISSION WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)	VIEWING ANGLE (°)	LUMINOUS INTENSITY (mcd) @ IF = 2mA; @ VF = 5V FOR 5V GREEN		FORWARD VOLTAGE (V) @ IF = 2 mA		FORWARD CURRENT (mA) @ VF = 5V		REVERSE CURRENT (μA) @ VR = 5V
				MIN	TYP	TYP	MAX	TYP	MAX	MAX
RED DIFFUSED	635	623	60	0.7	2.5	1.7	2.2	—	—	10
GREEN DIFFUSED	565	569	60	0.4	1.1	1.9	2.2	—	—	10
YELLOW DIFFUSED	591	588	60	0.4	1.1	1.8	2.7	—	—	10
GREEN DIFF, 5V INTEGRAL RESISTOR	565	—	60	5.6	19	—	—	10	20	100



RECOMMENDED HOLE PATTERN GAUGE



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

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SCALE: DRAWING SCALE ALL DIM'S IN: INCHES (MM)	DRAWING NUMBER C-17638	REV A
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXX): ±.0005 ANGLES: ±1°	TITLE BI-LEVEL CBI BACKLIGHTING RoHS COMPLIANT	MATERIAL
FINISH:	Dialight	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727
FSCM 83330	SHEET 1 OF 1	FAMILY TABLE:

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