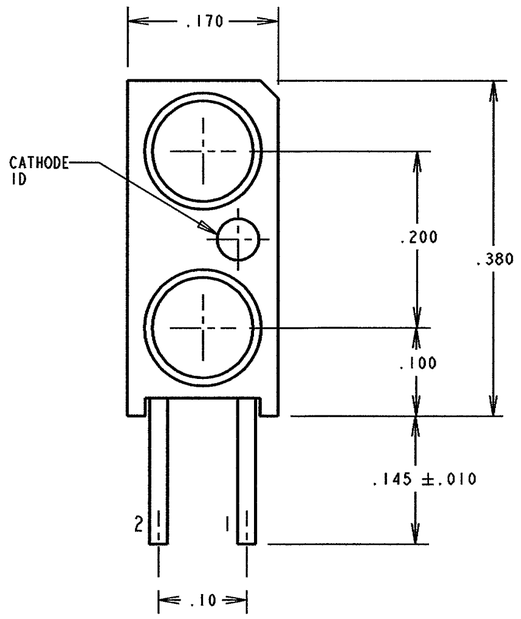
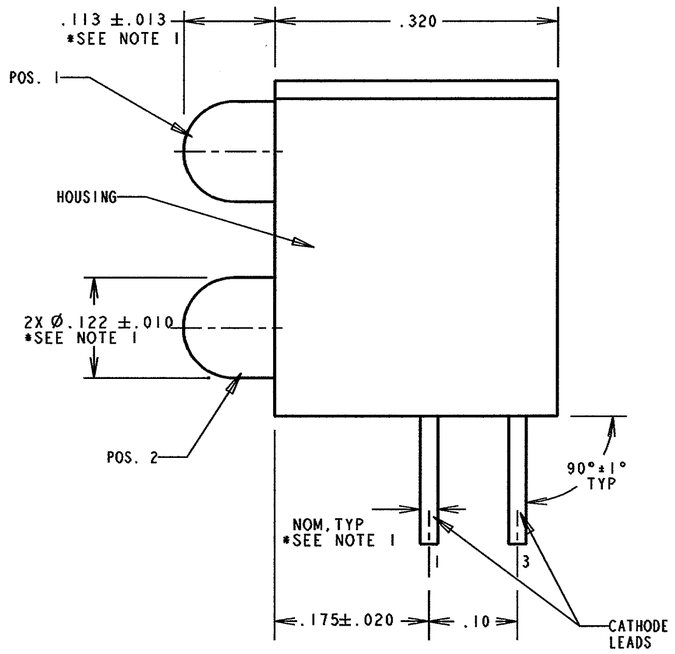
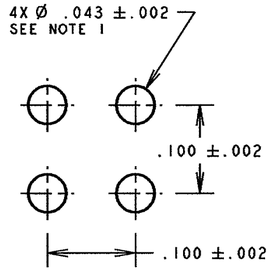
ASSY. NO. (CAT. NO.)	LED COLOR		NOTES
	POSITION 1	POSITION 2	
553-0101F	BLANK	RED	
553-0102F	BLANK	GREEN	
553-0103F	BLANK	YELLOW	
553-0107F	BLANK	ORANGE	
553-0108F	BLANK	BLUE	**
553-0110F	RED	BLANK	
553-0111F	RED	RED	
553-0112F	RED	GREEN	
553-0113F	RED	YELLOW	
553-0118F	RED	BLUE	**
553-0120F	GREEN	BLANK	
553-0121F	GREEN	RED	
553-0122F	GREEN	GREEN	
553-0123F	GREEN	YELLOW	
553-0128F	GREEN	BLUE	**
553-0130F	YELLOW	BLANK	
553-0131F	YELLOW	RED	
553-0132F	YELLOW	GREEN	
553-0133F	YELLOW	YELLOW	
553-0181F	BLUE	RED	
553-0182F	BLUE	GREEN	**
553-0188F	BLUE	BLUE	**
553-0199F	WHITE	WHITE	*/**
553-0201F	BLANK	RED	*
553-0202F	BLANK	GREEN	*
553-0203F	BLANK	YELLOW	*
553-0210F	RED	BLANK	*
553-0211F	RED	RED	*
553-0212F	RED	GREEN	*
553-0213F	RED	YELLOW	*
553-0220F	GREEN	BLANK	*
553-0221F	GREEN	RED	*
553-0222F	GREEN	GREEN	*
553-0223F	GREEN	YELLOW	*
553-0230F	YELLOW	BLANK	*
553-0231F	YELLOW	RED	*
553-0232F	YELLOW	GREEN	*
553-0233F	YELLOW	YELLOW	*
553-0301F	BLANK	RED	*
553-0302F	BLANK	GREEN	*
553-0303F	BLANK	YELLOW	*
553-0310F	RED	BLANK	*
553-0311F	RED	RED	*
553-0312F	RED	GREEN	*
553-0313F	RED	YELLOW	*
553-0320F	GREEN	BLANK	*
553-0321F	GREEN	RED	*
553-0322F	GREEN	GREEN	*
553-0323F	GREEN	YELLOW	*
553-0331F	YELLOW	RED	*
553-0332F	YELLOW	GREEN	*
553-0333F	YELLOW	YELLOW	*

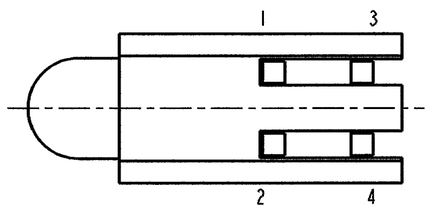
REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	TWC	MES	N.O.	8-5-05
B	—	ADDED P/N 553-0181F	SM	N.O.	MES	11-13-06
C	—	CHANGED IN SIDE VIEW POS 3 TO POS 2	SM	N.O.	MES	11-17-06
D	—	ADDED P/N 553-0199F & NOTE 4	SM	N.O.	MES	5-1-07
E	—	OPERATING CHARACTERISTICS TABLE CORRECTED FOR WHITE LED	SM	N.O.	MES	5-22-07
F	—	UPDATED WHITE LED SPECS	KLJ	M.E.C.		2-7-08







RECOMMENDED PC BOARD HOLE PATTERN



NOTE:

1. *DENOTES PARTS WITH LED PROTRUSION OF .103 ±.013, WITH LEADS .018 SQ.NOM., LED BODY Ø.115 ±.010 AND THE PC BOARD RECOMMENDED HOLE SIZE IS Ø.040 ±.002.
2. DIALIGHT PART NUMBER: 553-0XXXF
3. PIN NUMBER FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PARTS.
4. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.

20mA WHITE LED
OPERATING CHARACTERISTICS AT T_A = 25°C

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST COND.
V_F	FORWARD VOLTAGE		3.2	3.7	V	I_F=20mA
I_R		10			uA	V_R=5V
I_V	LUMINOUS INTENSITY	1150		2500	mcd	I_F=20mA

BIN	LIMITS (WHITE LED) (CHROMATICITY COORDINATES)				
1	X	0.330	0.330	0.356	0.361
	Y	0.360	0.318	0.351	0.385
2	X	0.287	0.296	0.330	0.330
	Y	0.295	0.276	0.318	0.339
3	X	0.264	0.280	0.296	0.283
	Y	0.267	0.248	0.276	0.305
4	X	0.283	0.287	0.330	0.330
	Y	0.305	0.295	0.339	0.360



SINGLE COLOR LED SCHEMATIC

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

RoHS Compliant 553-0xxxF Thru hole Bi-level CBI

Part Numbers with the "F" suffix ending are RoHS Compliant.
Example: 553-0101F, 553-0333F
The bag 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.

10 ma LED.
OPERATING CHARACTERISTICS AT T_A =25°C

SYMBOL	PARAMETER	COLOR	MIN	TYP	MAX	UNITS	TEST COND.
V_F	FORWARD VOLTAGE	RED		2.0	3.0	V	I_F= 10 mA
		YELLOW		2.1	3.0		
		GREEN		2.1	3.0		
		BLUE		3.5	4.2		
V_R		ALL	3			V	I_R= 10µA
λ_{PK}	PEAK WAVELENGTH	RED		650		nm	MEASURED AT PEAK
		YELLOW		585			
		GREEN		563			
		BLUE		428			
I_V	LUMINOUS INTENSITY	RED	3.6	10.0		mcd	I_F= 10 mA
		YELLOW	2.2	6.3			
		GREEN	5.6	16.0			
		BLUE	6.3		20		

2 ma LOW CURRENT LED.
OPERATING CHARACTERISTICS AT T_A =25°C

SYMBOL	PARAMETER	COLOR	MIN	TYP	MAX	UNITS	TEST COND.
V_F	FORWARD VOLTAGE	RED		1.7	2.2	V	I_F = 2 mA
		YELLOW		1.8	2.7		
		GREEN		1.9	2.2		
V_R		ALL	5			V	I_R = 50 µA
λ_{PK}	PEAK WAVELENGTH	RED		635		nm	MEASURED AT PEAK
		YELLOW		583			
		GREEN		565			
I_V	LUMINOUS INTENSITY	RED	1.0	1.6		mcd	I_F = 2 mA
		YELLOW	1.0	1.6			
		GREEN	1.0	1.6			

5 V., INTEGRAL RESISTOR LED
OPERATING CHARACTERISTICS AT T_A =25°C

SYMBOL	PARAMETER	COLOR	MIN	TYP	MAX	UNITS	TEST COND.
I_F	FORWARD CURRENT	RED		10	20	mA	V_F= 5 V
		YELLOW		10	20		
		GREEN		10	20		
V_R		ALL	5			V	I_R= 100µA
λ_{PK}	PEAK WAVELENGTH	RED		635		nm	MEASURED AT PEAK
		YELLOW		585			
		GREEN		565			
I_V	LUMINOUS INTENSITY	RED	8.7	29		mcd	V_F= 5 V
		YELLOW	3.7	12.6			
		GREEN	5.6	19			

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SCALE: DRAWING SCALE
ALL DIM'S IN: INCHES (MM)
TOLERANCES: UNLESS OTHERWISE SPECIFIED
FRACTIONS: ±1/64
DECIMALS (.XX): ±.02
DECIMALS (.XXX): ±.015
DECIMALS (.XXXX): ±.0005
ANGLES: ±1°
FINISH:
FSCM 83330

DRAWING NUMBER C-17277
REV F
TITLE 3mm LED BI-LEVEL CBI RoHS COMPLIANT
MATERIAL

Dialight
1501 ROUTE 34 SOUTH
FARMINGDALE, NJ 07727

SHEET 1 OF 1
FAMILY TABLES: