

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A		NEW RELEASE	TWC	TC	N.O.	7-13-05
B		ADDED P/N 553-0183-200F	TWC			

- NOTES:
- MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.
  - LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
  - PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
  - DIALIGHT PART NUMBER: 553-0XXX-200F.
  - THIS ASSEMBLY CONTAINS ELECTROSTATIC SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.

**RoHS Compliant 553-0xxx-200F Thru hole Bi-level CBI**

Part Numbers with the "F" suffix ending are RoHS Compliant.  
 Example: 553-0101-200F, 553-0333-200F  
 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.

OPERATING CHARACTERISTICS AT T<sub>A</sub> = 25°C

SYMBOL	PARAMETER	COLOR	MIN	TYP	MAX	UNITS	TEST COND.
V <sub>F</sub>	FORWARD VOLTAGE	RED		2.0	2.8	V	I <sub>F</sub> = 10 mA
		YELLOW		2.1	2.8		
		GREEN		2.1	2.8		
		BLUE		3.5	4.2		
V <sub>R</sub>	REVERSE VOLTAGE	ALL	5.0			V	I <sub>R</sub> = 100 μA
λ <sub>PK</sub>	PEAK WAVELENGTH	RED		635		nm	MEASURED AT PEAK
		YELLOW		585			
		GREEN		565			
		BLUE		428			
I <sub>V</sub>	LUMINOUS INTENSITY	RED	7.4	10.0		mcd	I <sub>F</sub> = 20 mA
		YELLOW	7.4	10.0			
		GREEN	4.7	12.6			
		BLUE	6.3		20		



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



RECOMMENDED PC BOARD HOLE PATTERN

PART NUMBER	LED COLOR (DIFFUSED)	
	POSITION 1	POSITION 2
553-0101-200F	BLANK	RED
553-0102-200F	BLANK	GREEN
553-0103-200F	BLANK	YELLOW
553-0110-200F	RED	BLANK
553-0111-200F	RED	RED
553-0112-200F	RED	GREEN
553-0113-200F	RED	YELLOW
553-0120-200F	GREEN	BLANK
553-0121-200F	GREEN	RED
553-0122-200F	GREEN	GREEN
553-0123-200F	GREEN	YELLOW
553-0128-200F	GREEN	BLUE
553-0130-200F	YELLOW	BLANK
553-0131-200F	YELLOW	RED
553-0132-200F	YELLOW	GREEN
553-0133-200F	YELLOW	YELLOW
553-0183-200F	BLUE	YELLOW
553-0188-200F	BLUE	BLUE
553-0201-200F	BLANK	RED
553-0202-200F	BLANK	GREEN
553-0203-200F	BLANK	YELLOW
553-0210-200F	RED	BLANK
553-0211-200F	RED	RED
553-0212-200F	RED	GREEN
553-0213-200F	RED	YELLOW
553-0220-200F	GREEN	BLANK
553-0222-200F	GREEN	GREEN
553-0232-200F	YELLOW	GREEN
553-0233-200F	YELLOW	YELLOW
553-0311-200F	RED	RED
553-0322-200F	GREEN	GREEN
553-0333-200F	YELLOW	YELLOW



LEAD CONFIGURATION

2 ma LOW CURRENT LED.  
 OPERATING CHARACTERISTICS AT 25°C AMBIENT  
 FOR 553-02XX-400)

CHARACTERISTICS	MIN	TYP	MAX	UNITS	TEST COND.
LUMINOUS INTENSITY	1.0	1.6		mcd	I <sub>F</sub> = 2 mA
	1.0	1.6			
	1.0	1.6			
FORWARD VOLTAGE		1.7	2.2	V	I <sub>F</sub> = 2 mA
	YELLOW	1.8	2.7		
	GREEN	1.9	2.2		
REVERSE VOLTAGE	5			V	I <sub>R</sub> = 10 μA
PEAK WAVELENGTH		635		nm	MEASURED AT PEAK
		585			
		565			
VIEWING ANGLE		60		Degree	

5 V., INTEGRAL RESISTOR LED  
 OPERATING CHARACTERISTICS AT 25°C AMBIENT  
 FOR 553-03XX-400)

CHARACTERISTICS	L.E.D. COLOR	MIN	TYP	MAX	UNITS	TEST COND.
LUMINOUS INTENSITY	RED	8.7	29		mcd	V <sub>F</sub> = 5 V
	YELLOW	3.7	12.6			
	GREEN	5.6	19			
FORWARD CURRENT	RED		10	20	mA	V <sub>F</sub> = 5 V
	YELLOW		10	20		
	GREEN		12	20		
REVERSE VOLTAGE	ALL	5			V	I <sub>R</sub> = 100 μA
PEAK WAVELENGTH	RED		635		nm	MEASURED AT PEAK
	YELLOW		585			
	GREEN		565			
VIEWING ANGLE	ALL		60		Degree	

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SCALE: 5:1 ALL DIM'S IN: INCHES (MM)	DRAWING NUMBER C-17269	REV B
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	TITLE CBI, 3MM BI-LEVEL, CATHODE LEFT, ROHS COMPLIANT	MATERIAL
FINISH:	<b>Dialight</b>	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727
FSCM 83330	SHEET 1 OF 1	FAMILY TABLE: