

| 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_A = 25°C

| SYMBOL | PARAMETER | COLOR | MIN | TYP | MAX | UNITS | TEST COND. |
|-----------------|--------------------|--------|-----|------|-----|-------|-------------------------|
| V _F | FORWARD VOLTAGE | RED | | 2.0 | 2.8 | V | I _F = 10 mA |
| | | YELLOW | | 2.1 | 2.8 | | |
| | | GREEN | | 2.1 | 2.8 | | |
| | | BLUE | | 3.5 | 4.2 | | |
| V _R | REVERSE VOLTAGE | ALL | 5.0 | | | V | I _R = 100 μA |
| λ _{PK} | PEAK WAVELENGTH | RED | | 635 | | nm | MEASURED AT PEAK |
| | | YELLOW | | 585 | | | |
| | | GREEN | | 565 | | | |
| | | BLUE | | 428 | | | |
| I _V | LUMINOUS INTENSITY | RED | 7.4 | 10.0 | | mcd | I _F = 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 |



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 _F = 2 mA |
| | 1.0 | 1.6 | | | |
| | 1.0 | 1.6 | | | |
| FORWARD VOLTAGE | | 1.7 | 2.2 | V | I _F = 2 mA |
| | YELLOW | 1.8 | 2.7 | | |
| REVERSE VOLTAGE | 5 | | | V | I _R = 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 _F = 5 V |
| | YELLOW | 3.7 | 12.6 | | | |
| | GREEN | 5.6 | 19 | | | |
| FORWARD CURRENT | RED | | 10 | 20 | mA | V _F = 5 V |
| | YELLOW | | 10 | 20 | | |
| | GREEN | | 12 | 20 | | |
| REVERSE VOLTAGE | ALL | 5 | | | V | I _R = 100 μA |
| PEAK WAVELENGTH | RED | | 635 | | nm | MEASURED AT PEAK |
| | YELLOW | | 585 | | | |
| | GREEN | | 565 | | | |
| VIEWING ANGLE | ALL | | 60 | | Degree | |

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.

| | | |
|--|---|--|
| 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 | |
| FINISH: | MATERIAL | |
| FSCM 83330 | Dialight | 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 |
| | SHEET 1 OF 1 | FAMILY TABLE: |

Mouser Electronics

Authorized Distributor

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

Dialight:

[553-0311-200F](#) [553-0210-200F](#) [553-0202-200F](#) [553-0121-200F](#) [553-0122-200F](#) [553-0232-200F](#) [553-0101-200F](#)
[553-0120-200F](#) [553-0213-200F](#) [553-0322-200F](#) [553-0102-200F](#) [553-0203-200F](#) [553-0188-200F](#) [553-0222-200F](#)
[553-0132-200F](#) [553-0112-200F](#) [553-0131-200F](#) [553-0111-200F](#) [553-0201-200F](#) [553-0183-200F](#) [553-0220-200F](#)
[553-0110-200F](#) [553-0130-200F](#) [553-0333-200F](#) [553-0103-200F](#) [553-0113-200F](#) [553-0233-200F](#) [553-0123-200F](#)
[553-0133-200F](#) [553-0212-200F](#) [553-0172-200F](#) [553-0231-200F](#) [553-0323-200F](#) [553-0312-200F](#) [553-0127-200F](#)