

| DIALIGHT PART NUMBER | LED COLOR | |
|----------------------|----------------|----------------|
| | POSITION 1 | POSITION 2 |
| 553-0701F | ** BLANK ** | RED / GREEN |
| 553-0704F | ** BLANK ** | YELLOW / GREEN |
| 553-0711F | RED / GREEN | RED / GREEN |
| 553-0714F | RED / GREEN | YELLOW / GREEN |
| 553-0715F | RED / GREEN | RED / YELLOW |
| 553-0717F | RED / GREEN | ORANGE/GREEN |
| 553-0740F | YELLOW / GREEN | ** BLANK ** |
| 553-0741F | YELLOW / GREEN | RED / GREEN |
| 553-0744F | YELLOW / GREEN | YELLOW / GREEN |
| 553-0745F | YELLOW / GREEN | RED / YELLOW |
| 553-0751F | RED / YELLOW | RED / GREEN |
| 553-0754F | RED / YELLOW | YELLOW / GREEN |
| 553-0755F | RED / YELLOW | RED YELLOW |

RoHS COMPLIANT 553-07XXF
 Part Numbers with the "F" suffix ending are RoHS Compliant.
 For example: 553-0744F
 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.

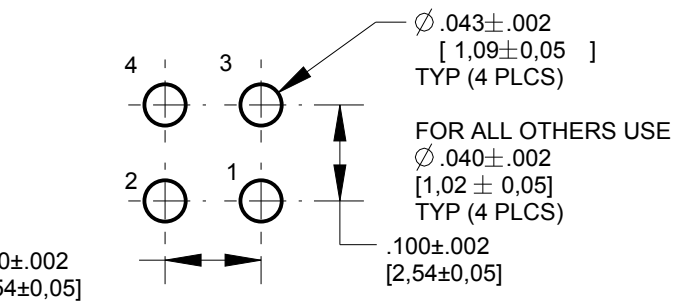
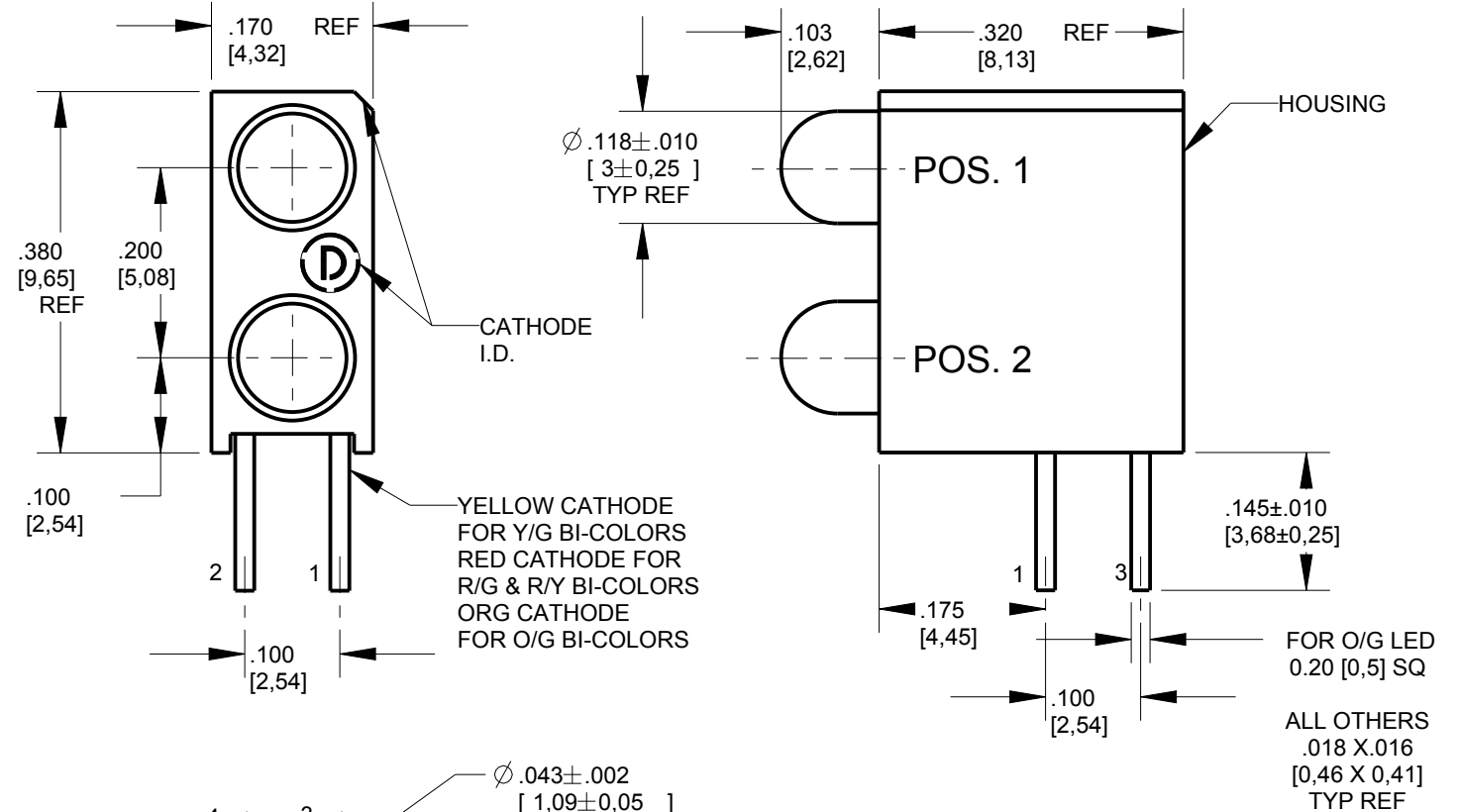


ATTENTION:
 OBSERVE PRECAUTIONS FOR
 HANDLING ELECTROSTATIC
 SENSITIVE DEVICES

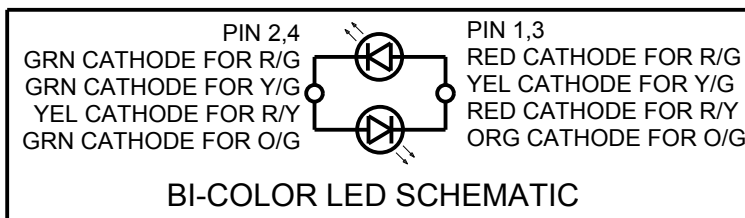
| REV | REVISIONS | DRN | CKD | APP | DATE |
|-----|---|-----|------|-----|---------|
| A | NEW RELEASE | TWC | N.O. | TC | 6-7-06 |
| B | ADDED P/N'S 553-0715F, 553-0745F; REMOVED REV TABLE, ADDED METRIC DIMENSIONS, REMOVED NOTE 2. | KLJ | N.O. | MES | 12-3-08 |
| C | ADDED P/N'S 553-0751F, 553-0754F | KLJ | FN | NO | 1-5-09 |
| D | ADDED P/N 553-0755F | JG | WFB | NO | 4-19-13 |
| E | ADDED P/N 553-0717F, 553-0755F REVISED LEAD DIM, WAS .02 SQ REVISED HOLE PATTERN, WAS .043 ADDED ORANGE/GREEN COLOR REVISED LED SPECS | LD | | | |

| OPERATING CHARACTERISTICS AT 25 °C AMBIENT | | | | | | | | | | | | | |
|--|--------|-----------------------------------|--------------------------|------|------|---|-----|----------------------|--------------------------|-----|-----|----------------------|---------------------|
| LED | COLOR | LUMINOUS INTENSITY TEST CONDITION | LUMINOUS INTENSITY (mcd) | | | FORWARD VOLTAGE @I _F = 20 mA (V) | | REVERSE CURRENT (μA) | DOMINANT WAVELENGTH (nm) | | | PEAK WAVELENGTH (nm) | VIEWING ANGLE (DEG) |
| | | | MIN | TYP | MAX | TYP | MAX | | MIN | TYP | MAX | | |
| R/G DIFFUSED BI-COLOR LED | RED | I _F = 10mA | 1.2 | 5.6 | 30 | 2.0 | 2.6 | 100 | 617 | 621 | 633 | 635 | 200 |
| | GREEN | I _F = 10mA | 1.5 | 8.7 | 30 | 2.1 | 2.6 | 100 | 563 | 569 | 572 | 565 | 200 |
| Y/G DIFFUSED BI-COLOR LED | YELLOW | I _F = 10mA | 3.0 | — | 8.5 | 2.1 | 2.6 | 100 | 583 | 586 | 589 | 585 | 80 |
| | GREEN | I _F = 10mA | 6.5 | — | 18 | 2.1 | 2.6 | 100 | 563 | 569 | 572 | 565 | 80 |
| R/Y DIFFUSED BI-COLOR LED | RED | I _F = 20mA | 2.5 | 8.7 | — | 2.0 | 2.6 | 100 | — | 621 | — | 630 | 80 |
| | YELLOW | I _F = 20mA | 2.5 | 8.7 | — | 2.1 | 2.6 | 100 | — | 588 | — | 585 | 80 |
| O/G DIFFUSED BI-COLOR LED | ORANGE | I _F = 10mA | 14.0 | 50.0 | 85.0 | — | 2.6 | 10 | 600 | 605 | 614 | 621 | 60 |
| | GREEN | I _F = 10mA | 5.0 | 12.0 | 18.0 | — | 2.6 | 10 | 560 | 565 | 570 | 574 | 60 |

| ABSOLUTE MAX RATINGS AT 25°C AMBIENT | R/G BI-COLOR | | Y/G BI-COLOR | | R/Y BI-COLOR | | O/G BI-COLOR | | UNITS | |
|--------------------------------------|--------------|-------|--------------|-------|--------------|--------|--------------|-------|-------|----|
| | RED | GREEN | YELLOW | GREEN | RED | YELLOW | ORANGE | GREEN | | |
| POWER DISSIPATION | 100 | 100 | 60 | 100 | 100 | 60 | 60 | 100 | mW | |
| CONTINUOUS FORWARD CURRENT | 30 | 30 | 20 | 30 | 30 | 20 | 20 | 30 | mA | |
| PEAK FORWARD CURRENT | 90 | 90 | 80 | 120 | 120 | 80 | 80 | 120 | mA | |
| DERATE LINEARLY FROM 50 °C | 0.4 | 0.4 | 0.25 | 0.4 | — | — | 0.25 | 0.4 | mA/°C | |
| REVERSE VOLTAGE | 5 | | | | 9 | | | | V | |
| STORAGE TEMPERATURE | -55 TO +100 | | | | | | | | | °C |
| OPERATING TEMPERATURE | -55 TO +100 | | | | | | | | | °C |
| SOLDERING TEMPERATURE, FOR 5 SEC | 260 | | | | | | | | | °C |



RECOMMENDED HOLE PATTERN GAUGE



NOTES:

- LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- DIALIGHT PART NUMBERS: 553-07XXF
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

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| | | |
|--|------------------|--|
| SCALE: 5.000 | DRAWING NUMBER | REV |
| ALL DIM'S: INCH (mm) | C-17409 | E |
| TOLERANCES: UNLESS OTHERWISE SPECIFIED | TITLE | |
| FRACTIONS: ±1/64 | 3mm BI-LEVEL CBI | |
| DECIMALS (.XX): ±.02 | RoHS COMPLIANT | |
| DECIMALS (.XXX): ±.015 | MATERIAL | |
| ANGLES: ±3° | | |
| FINISH | | |
| FSCM 83330 | Dialight | 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com |
| | SHEET 1 OF 1 | FAMILY TABLE: |