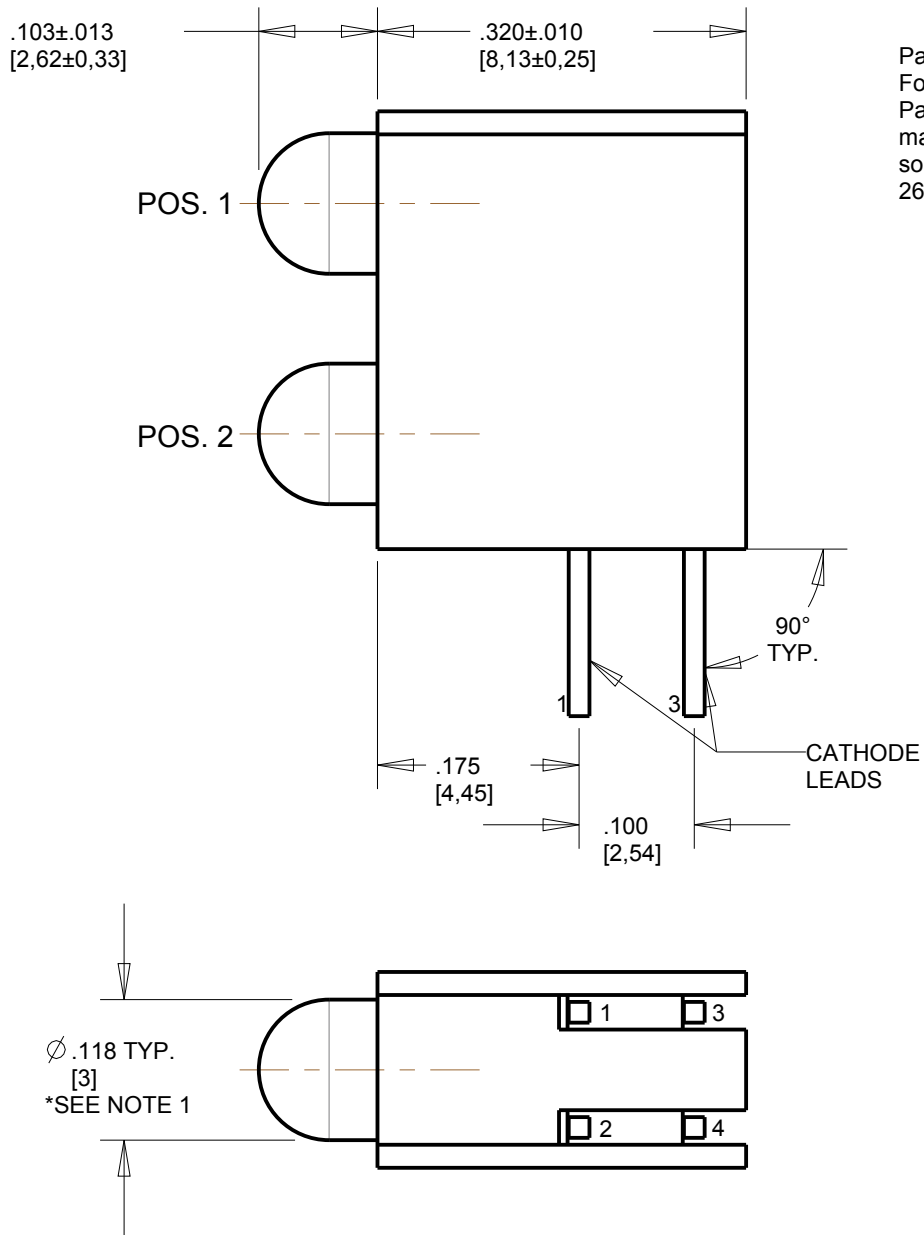
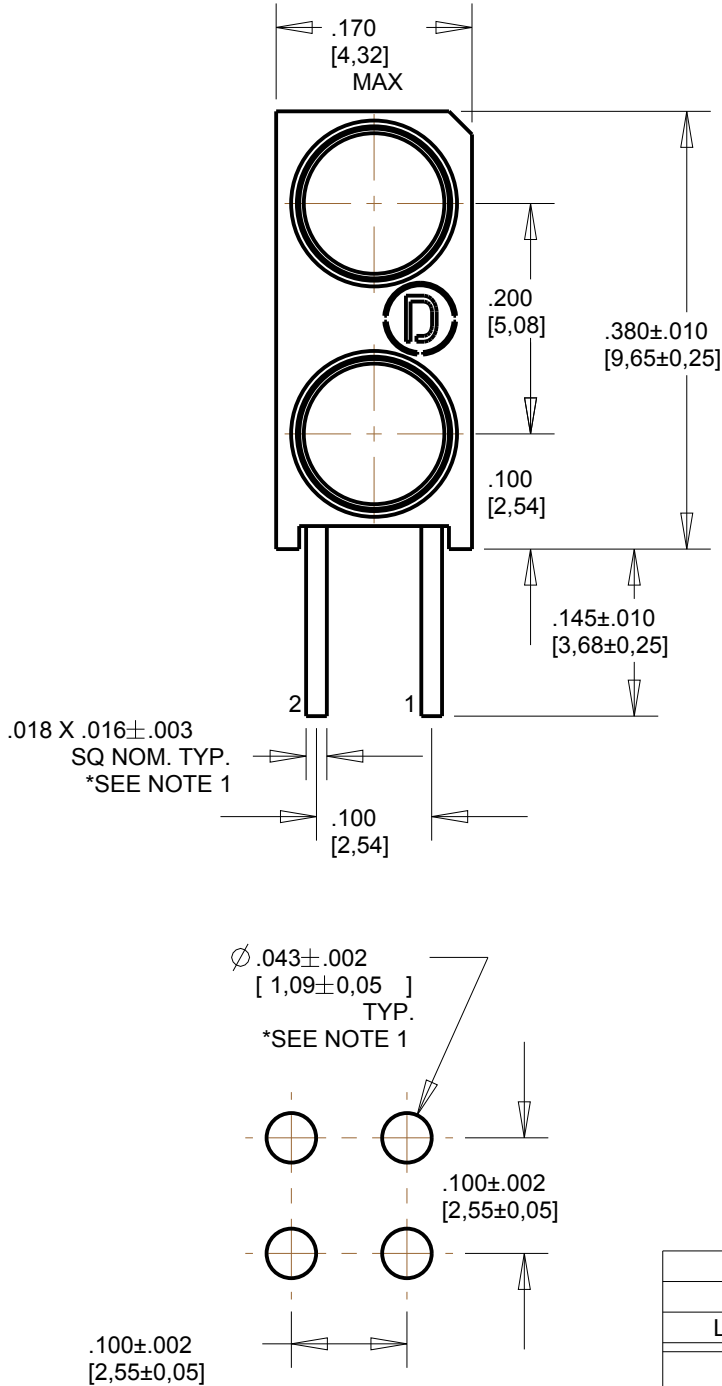


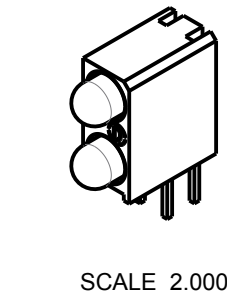
| ASSY. NO.<br>(CAT. NO.) | LED COLOR  |            |
|-------------------------|------------|------------|
|                         | POSITION 1 | POSITION 2 |
| 553-0101F               | BLANK      | RED        |
| 553-0102F               | BLANK      | GREEN      |
| 553-0103F               | BLANK      | 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     |
| 553-0127F               | GREEN      | ORANGE     |
| 553-0128F               | GREEN      | BLUE       |
| 553-0130F               | YELLOW     | BLANK      |
| 553-0131F               | YELLOW     | RED        |
| 553-0132F               | YELLOW     | GREEN      |
| 553-0133F               | YELLOW     | YELLOW     |
| 553-0171F               | ORANGE     | RED        |
| 553-0172F               | ORANGE     | GREEN      |
| 553-0173F               | ORANGE     | YELLOW     |
| 553-0177F               | ORANGE     | ORANGE     |
| 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     |



**RoHS COMPLIANT 553-0XXXF**

Part Numbers with the "F" suffix ending are RoHS Compliant.  
For example: 553-0101F  
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.

| BIN | LIMITS (WHITE LED)<br>(CHROMATICITY COORDINATES) |       |       |       |       |
|-----|--------------------------------------------------|-------|-------|-------|-------|
|     |                                                  |       |       |       |       |
| A3  | X                                                | 0.270 | 0.270 | 0.250 | 0.250 |
|     | Y                                                | 0.275 | 0.325 | 0.300 | 0.250 |
| A4  | X                                                | 0.270 | 0.250 | 0.250 | 0.270 |
|     | Y                                                | 0.275 | 0.250 | 0.200 | 0.225 |
| B3  | X                                                | 0.290 | 0.290 | 0.270 | 0.270 |
|     | Y                                                | 0.300 | 0.350 | 0.325 | 0.275 |
| B4  | X                                                | 0.290 | 0.270 | 0.270 | 0.290 |
|     | Y                                                | 0.300 | 0.275 | 0.225 | 0.250 |
| C3  | X                                                | 0.310 | 0.310 | 0.290 | 0.290 |
|     | Y                                                | 0.325 | 0.375 | 0.350 | 0.300 |
| C4  | X                                                | 0.310 | 0.290 | 0.290 | 0.310 |
|     | Y                                                | 0.325 | 0.300 | 0.250 | 0.275 |
| D3  | X                                                | 0.330 | 0.330 | 0.310 | 0.310 |
|     | Y                                                | 0.350 | 0.400 | 0.375 | 0.325 |
| D4  | X                                                | 0.330 | 0.310 | 0.310 | 0.330 |
|     | Y                                                | 0.350 | 0.325 | 0.275 | 0.300 |



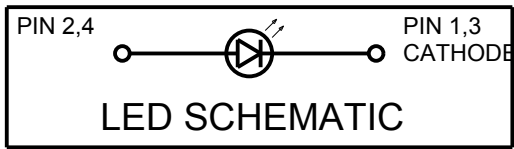
SCALE 2.000



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

NOTES:

- (FOR ORANGE: LEADS .018 SQ. NOM.), LED BODY Ø.115±.010 AND THE PC BOARD TOLERANCE ON LEAD THICKNESS TO BE ±.003.
- 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: 553-0XXXF.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.



| 553-02XXF                                                         |        |      |      |      |        |                       |
|-------------------------------------------------------------------|--------|------|------|------|--------|-----------------------|
| OPERATING CHARACTERISTICS AT 25° C AMBIENT: 2 mA LOW CURRENT LEDs |        |      |      |      |        |                       |
| LED CHARACTERISTICS                                               | COLOR  | MIN. | TYP. | MAX. | UNITS  | TEST CONDITIONS       |
| LUMINOUS INTENSITY                                                | RED    | 0.75 | 2.5  |      | mcd    | I <sub>F</sub> = 2 mA |
|                                                                   | YELLOW | 0.4  | 4.5  |      |        |                       |
|                                                                   | GREEN  | 0.4  | 1.1  |      |        |                       |
| PEAK WAVELENGTH                                                   | RED    |      | 635  |      | nm     |                       |
|                                                                   | YELLOW |      | 585  |      |        |                       |
|                                                                   | GREEN  |      | 565  |      |        |                       |
| FORWARD VOLTAGE                                                   | RED    | 1.7  | 2.2  |      | V      | I <sub>F</sub> = 2 mA |
|                                                                   | YELLOW | 1.8  | 2.2  |      |        |                       |
|                                                                   | GREEN  | 1.9  | 2.2  |      |        |                       |
| REVERSE CURRENT                                                   | ALL    |      |      | 10   | μA     | V <sub>R</sub> = 5V   |
| VIEWING ANGLE                                                     | ALL    |      | 60   |      | DEGREE |                       |

| 553-02XXF                                                           |  |             |              |
|---------------------------------------------------------------------|--|-------------|--------------|
| ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT:<br>2 mA LOW CURRENT LEDs |  | COLOR       | UNITS        |
|                                                                     |  | RED         | GREEN YELLOW |
| POWER DISSIPATION                                                   |  | 20          | mW           |
| PEAK FORWARD CURRENT<br>(1/10 DUTY CYCLE, 0.1ms PULSE WIDTH)        |  | 500         | mA           |
| CONTINUOUS FORWARD CURRENT                                          |  | 7           | mA           |
| LINEAR DERATING FROM 95° C                                          |  | 0.7         | mA/° C       |
| REVERSE VOLTAGE                                                     |  | 5           | V            |
| LEAD SOLDERING TEMPERATURE<br>(.063" [1.6mm] FROM BODY) FOR 5 SEC.  |  | 260         | ° C          |
| OPERATING TEMPERATURE                                               |  | -55 TO +100 | ° C          |
| STORAGE TEMPERATURE                                                 |  | -55 TO +100 | ° C          |

| 553-01XXF                                                                                                     |  |             |        |             |      |                        |
|---------------------------------------------------------------------------------------------------------------|--|-------------|--------|-------------|------|------------------------|
| ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT                                                                     |  | COLOR       |        |             |      | UNITS                  |
|                                                                                                               |  | RED         | YELLOW | GREEN       | BLUE | ORANGE WHITE           |
| POWER DISSIPATION                                                                                             |  | 100         | 60     | 120         | 120  | 135 120                |
| PEAK FORWARD CURRENT (1/5 DUTY CYCLE, 1 ms PULSE WIDTH)<br>(1/10, .1ms FOR BLUE) (t< 10 μs D=.005 FOR ORANGE) |  | 90          | 60     | 90          | 100  | 500 100                |
| CONTINUOUS FORWARD CURRENT                                                                                    |  | 30          | 20     | 30          | 30   | 30 30                  |
| LINEAR DERATING FROM 50° C (30° C FOR BLUE, 30° C FOR WHITE)                                                  |  | 0.40        | 0.25   | 0.40        | .5   | 0.50 .45               |
| REVERSE VOLTAGE                                                                                               |  | 5           |        |             |      | V                      |
| LEAD SOLDERING TEMPERATURE (.063" [1.6mm] FROM BODY) FOR 5 SEC.                                               |  | 260         |        |             |      | ° C                    |
| OPERATING TEMPERATURE                                                                                         |  | -55 TO +100 |        | -40 TO +85  |      | -55 TO +100 -40 TO +85 |
| STORAGE TEMPERATURE                                                                                           |  | -55 TO +100 |        | -55 TO +100 |      | -40 TO +100            |

| 553-03XXF                                                              |        |      |      |      |        |                     |
|------------------------------------------------------------------------|--------|------|------|------|--------|---------------------|
| OPERATING CHARACTERISTICS AT 25° C AMBIENT: 5 V INTEGRAL RESISTOR LEDs |        |      |      |      |        |                     |
| LED CHARACTERISTICS                                                    | COLOR  | MIN. | TYP. | MAX. | UNITS  | TEST CONDITIONS     |
| LUMINOUS INTENSITY                                                     | RED    | 8.7  | 29.0 |      | mcd    | V <sub>F</sub> = 5V |
|                                                                        | YELLOW | 3.7  | 12.6 |      |        |                     |
|                                                                        | GREEN  | 5.6  | 19.0 |      |        |                     |
| PEAK WAVELENGTH                                                        | RED    |      | 635  |      | nm     |                     |
|                                                                        | YELLOW |      | 585  |      |        |                     |
|                                                                        | GREEN  |      | 565  |      |        |                     |
| FORWARD CURRENT                                                        | RED    |      | 10   | 20   | mA     | V <sub>F</sub> = 5V |
|                                                                        | YELLOW |      | 10   | 20   |        |                     |
|                                                                        | GREEN  |      | 10   | 20   |        |                     |
| REVERSE CURRENT                                                        | RED    |      |      | 100  | μA     | V <sub>R</sub> = 5V |
|                                                                        | YELLOW |      |      | 100  |        |                     |
|                                                                        | GREEN  |      |      | 100  |        |                     |
| VIEWING ANGLE                                                          | ALL    |      | 60   |      | DEGREE |                     |

| 553-03XXF                                                               |  |             |              |       |
|-------------------------------------------------------------------------|--|-------------|--------------|-------|
| ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT<br>5 V INTEGRAL RESISTOR LEDs |  | COLOR       |              | UNITS |
|                                                                         |  | RED         | GREEN YELLOW |       |
| CONTINUOUS FORWARD VOLTAGE                                              |  | 7.5         |              | V     |
| REVERSE VOLTAGE                                                         |  | 5           |              | V     |
| LINEAR DERATING FROM 50° C                                              |  | 0.071       |              | V/° C |
| LEAD SOLDERING TEMPERATURE<br>(.063" [1.6mm] FROM BODY) FOR 5 SEC.      |  | 260         |              | ° C   |
| OPERATING TEMPERATURE                                                   |  | -40 TO +85  |              | ° C   |
| STORAGE TEMPERATURE                                                     |  | -55 TO +100 |              | ° C   |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------|
| SCALE: 6.000                                                                                                                                                                                                                                     | DRAWING NUMBER                         | REV            |
| ALL DIM'S IN: INCHES (MM)                                                                                                                                                                                                                        | C-17277                                | K              |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                                        | TITLE                                  |                |
| FRACTIONS: ± 1/64<br>DECIMALS (.XX): ± .02<br>DECIMALS (.XXX): ± .015                                                                                                                                                                            | 3mm LED BI-LEVEL CBI<br>RoHS COMPLIANT |                |
| ANGLES: ±3°                                                                                                                                                                                                                                      | MATERIAL                               |                |
| FINISH                                                                                                                                                                                                                                           |                                        |                |
| FSCM 83330                                                                                                                                                                                                                                       |                                        |                |
|                                                                                                                                                                                                                                                  | SHEET 1 OF 1                           | FAMILY TABLES: |

**Dialight**

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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