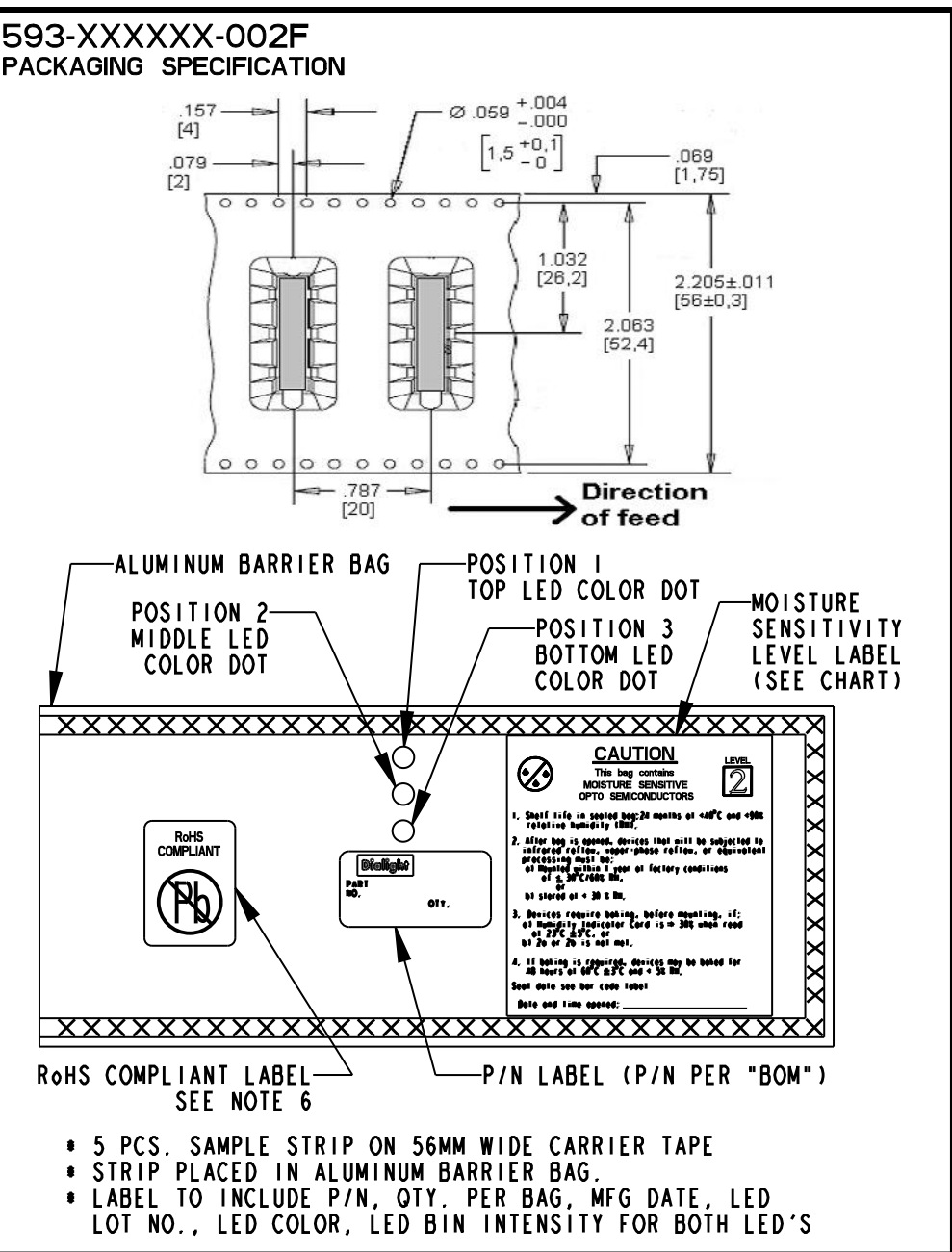
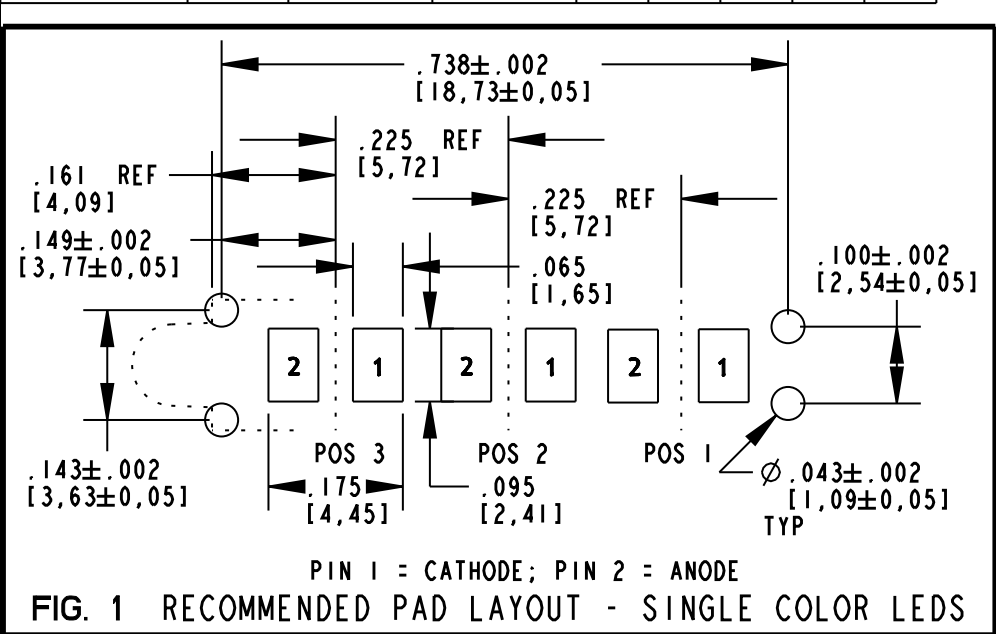
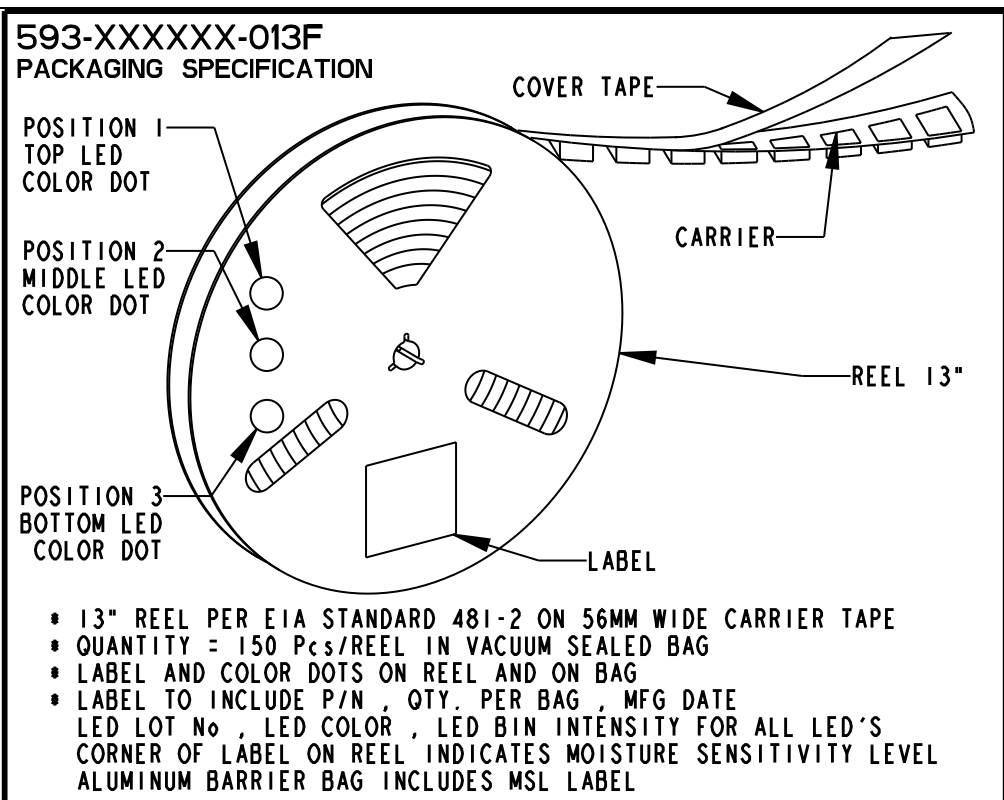
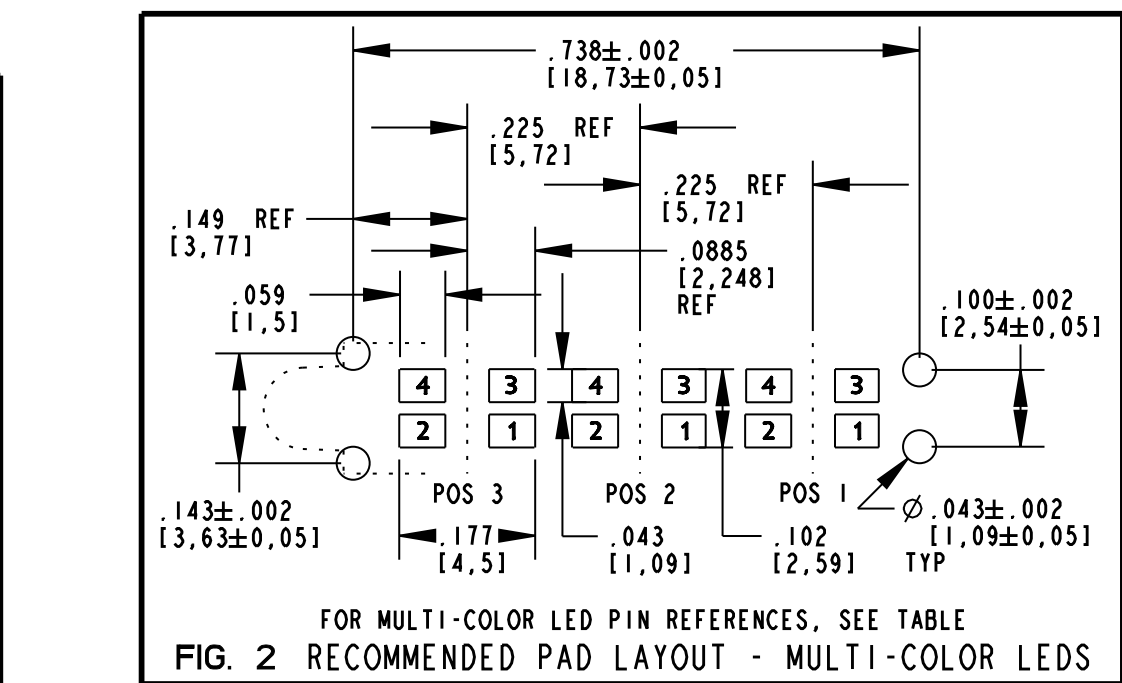


| PART NUMBER     | POSITION 1             | POSITION 2             | POSITION 3             | MSL | PAD LAYOUT REFERENCE |
|-----------------|------------------------|------------------------|------------------------|-----|----------------------|
| 593-202020-002F | RED                    | RED                    | RED                    | 2   | FIG. 1               |
| 593-202020-013F |                        |                        |                        |     |                      |
| 593-202024-002F |                        |                        |                        |     |                      |
| 593-202024-013F | RED                    | RED                    | YELLOW                 | 2   | FIG. 1               |
| 593-202324-002F |                        |                        |                        |     |                      |
| 593-202324-013F |                        |                        |                        |     |                      |
| 593-203120-002F | RED                    | YELLOW/<br>GREEN       | RED                    | 2   | FIG. 1<br>& FIG. 2   |
| 593-203120-013F |                        |                        |                        |     |                      |
| 593-212121-002F |                        |                        |                        |     |                      |
| 593-212121-013F | AlGaAs<br>RED          | AlGaAs<br>RED          | AlGaAs<br>RED          | 2   | FIG. 1               |
| 593-212130-002F |                        |                        |                        |     |                      |
| 593-212130-013F |                        |                        |                        |     |                      |
| 593-222221-002F | HI. INT.<br>GREEN      | HI. INT.<br>GREEN      | AlGaAs<br>RED          | 2   | FIG. 1               |
| 593-222221-013F |                        |                        |                        |     |                      |
| 593-222222-002F |                        |                        |                        |     |                      |
| 593-222222-013F | HI. INT.<br>GREEN      | HI. INT.<br>GREEN      | HI. INT.<br>GREEN      | 2   | FIG. 1               |
| 593-232323-002F |                        |                        |                        |     |                      |
| 593-232323-013F |                        |                        |                        |     |                      |
| 593-232424-002F | GREEN                  | YELLOW                 | YELLOW                 | 2   | FIG. 1               |
| 593-232424-013F |                        |                        |                        |     |                      |
| 593-232627-002F |                        |                        |                        |     |                      |
| 593-232627-013F | GREEN                  | BLUE                   | AlInGaP<br>YELLOW      | 2   | FIG. 1               |
| 593-242320-002F |                        |                        |                        |     |                      |
| 593-242320-013F |                        |                        |                        |     |                      |
| 593-242424-002F | YELLOW                 | YELLOW                 | YELLOW                 | 2   | FIG. 1               |
| 593-242424-013F |                        |                        |                        |     |                      |
| 593-262626-002F |                        |                        |                        |     |                      |
| 593-262626-013F | BLUE                   | BLUE                   | BLUE                   | 2   | FIG. 1               |
| 593-272129-002F |                        |                        |                        |     |                      |
| 593-272129-013F |                        |                        |                        |     |                      |
| 593-272727-002F | AlInGaP<br>YELLOW      | AlInGaP<br>YELLOW      | AlInGaP<br>YELLOW      | 2   | FIG. 1               |
| 593-272727-013F |                        |                        |                        |     |                      |
| 593-282828-002F |                        |                        |                        |     |                      |
| 593-282828-013F | WHITE                  | WHITE                  | WHITE                  | 2   | FIG. 1               |
| 593-292929-002F |                        |                        |                        |     |                      |
| 593-292929-013F |                        |                        |                        |     |                      |
| 593-303030-002F | SUPER-RED/<br>GREEN    | SUPER-RED/<br>GREEN    | SUPER-RED/<br>GREEN    | 2   | FIG. 2               |
| 593-303030-013F |                        |                        |                        |     |                      |
| 593-313131-002F |                        |                        |                        |     |                      |
| 593-313131-013F | YELLOW/<br>GREEN       | YELLOW/<br>GREEN       | YELLOW/<br>GREEN       | 2   | FIG. 2               |
| 593-323232-002F |                        |                        |                        |     |                      |
| 593-323232-013F |                        |                        |                        |     |                      |
| 593-353535-002F | BLUE/<br>GREEN/<br>RED | BLUE/<br>GREEN/<br>RED | BLUE/<br>GREEN/<br>RED | 2a  | FIG. 2               |
| 593-353535-013F |                        |                        |                        |     |                      |

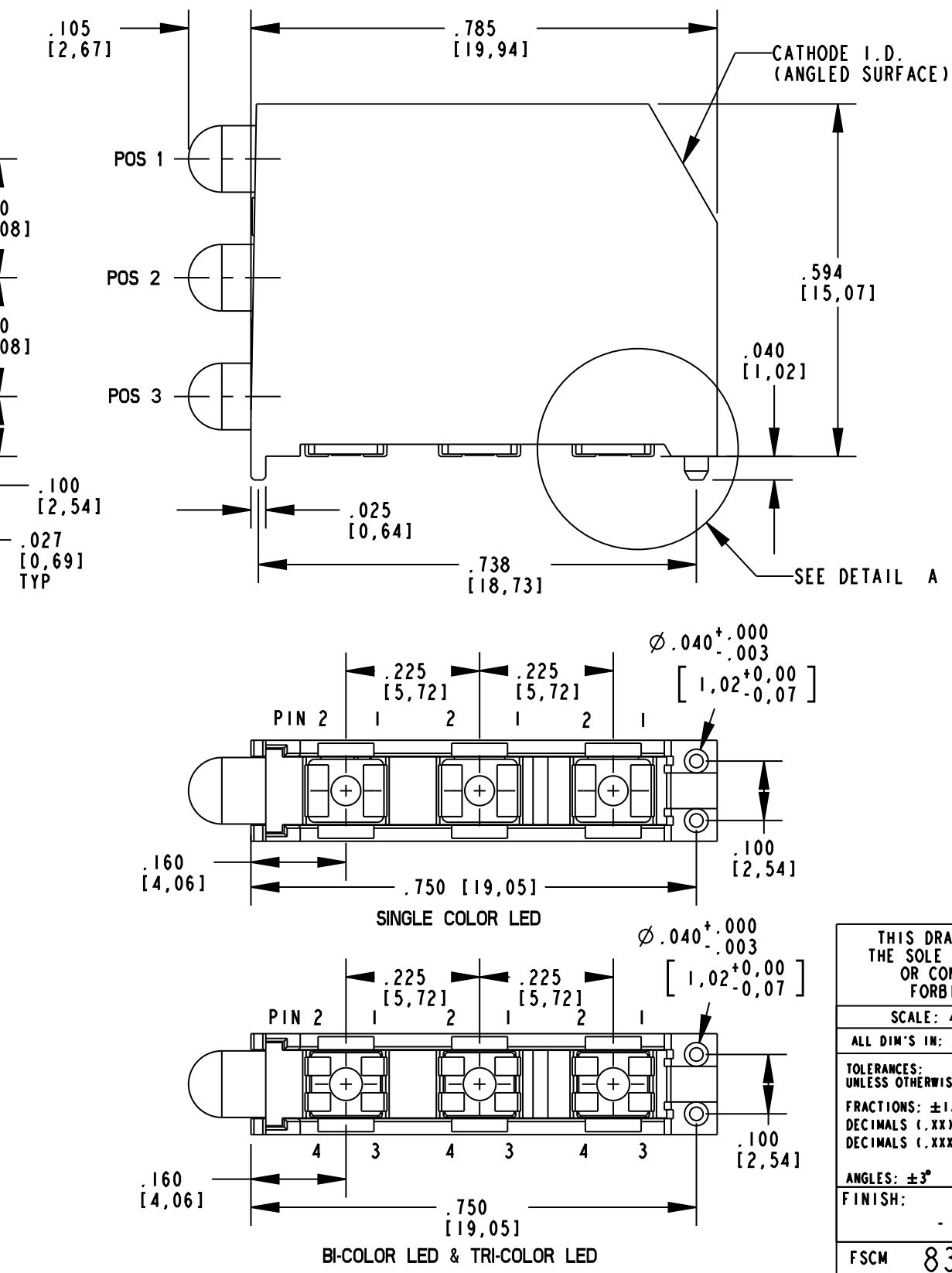
| OPERATING CHARACTERISTICS AT 25°C AMBIENT |        |                                |                     |           |      |                          |                |     |
|-------------------------------------------|--------|--------------------------------|---------------------|-----------|------|--------------------------|----------------|-----|
| COLOR                                     |        | LUMINOUS INTENSITY<br>@If=20mA | FORWARD VOLTAGE (V) |           |      | DOMINANT WAVELENGTH (nm) |                |     |
|                                           |        |                                | TYP                 | TEST COND | TYP  | MAX                      | MIN            | TYP |
| RED                                       |        | 6 mcd                          | If = 10mA           | 2.0       | 2.5  | 622                      | 628            | 634 |
| AlGaAs RED                                |        | 29 mcd                         | If = 10mA           | 1.75      | 2.5  | —                        | 645            | —   |
| HI. INT. GREEN                            |        | 16 mcd                         | If = 10mA           | 2.0       | 2.5  | 564                      | 570            | 576 |
| GREEN                                     |        | 11 mcd                         | If = 10mA           | 2.0       | 2.5  | 564                      | 570            | 576 |
| YELLOW                                    |        | 11 mcd                         | If = 10mA           | 2.0       | 2.5  | 580                      | 587            | 595 |
| BLUE                                      |        | 7 mcd                          | If = 10mA           | 3.5       | 4.2  | 462                      | 465            | 468 |
| AlInGaP YELLOW                            |        | 80 mcd                         | If = 10mA           | 2.0       | 2.4  | 580                      | 587            | 595 |
| WHITE                                     |        | 85 mcd                         | If = 10mA           | 3.1       | 3.7  | —                        | X .33<br>Y .33 | —   |
| InGaN GREEN                               |        | 150 mcd                        | If = 20mA           | 3.4       | 4.05 | 515                      | 525            | 535 |
| RED/GREEN<br>BI-COLOR                     | RED    | 7 mcd                          | If = 10mA           | 2.0       | 2.5  | 622                      | 628            | 634 |
|                                           | GREEN  | 10 mcd                         | If = 10mA           | 2.0       | 2.5  | 564                      | 570            | 576 |
| YELLOW/GREEN<br>BI-COLOR                  | YELLOW | 6 mcd                          | If = 10mA           | 2.0       | 2.5  | 584                      | 590            | 596 |
|                                           | GREEN  | 10 mcd                         | If = 10mA           | 2.0       | 2.5  | 564                      | 570            | 576 |
| RED/YELLOW<br>BI-COLOR                    | RED    | 45 mcd                         | If = 20mA           | 2.0       | 2.3  | 627                      | 633            | 639 |
|                                           | YELLOW | 70 mcd                         | If = 20mA           | 2.0       | 2.4  | 580                      | 587            | 595 |
| RED/GRN/BLUE<br>TRI-COLOR                 | RED    | 35 mcd                         | If = 20mA           | 1.9       | 2.4  | —                        | 626            | —   |
|                                           | GREEN  | 70 mcd                         | If = 20mA           | 3.4       | 4.05 | 515                      | 525            | 535 |
|                                           | BLUE   | 20 mcd                         | If = 20mA           | 3.4       | 4.05 | 460                      | 470            | 480 |



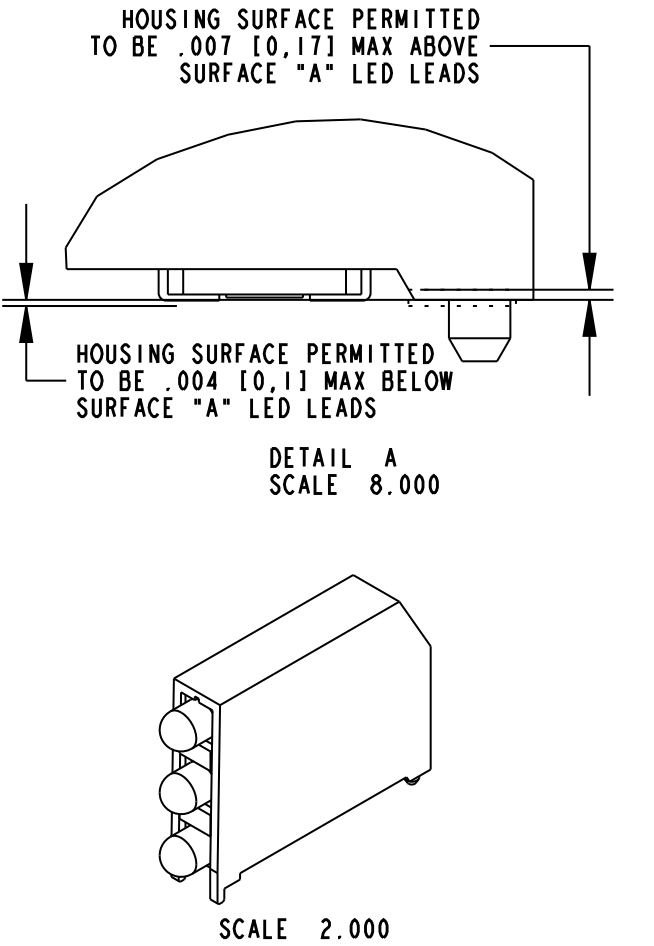
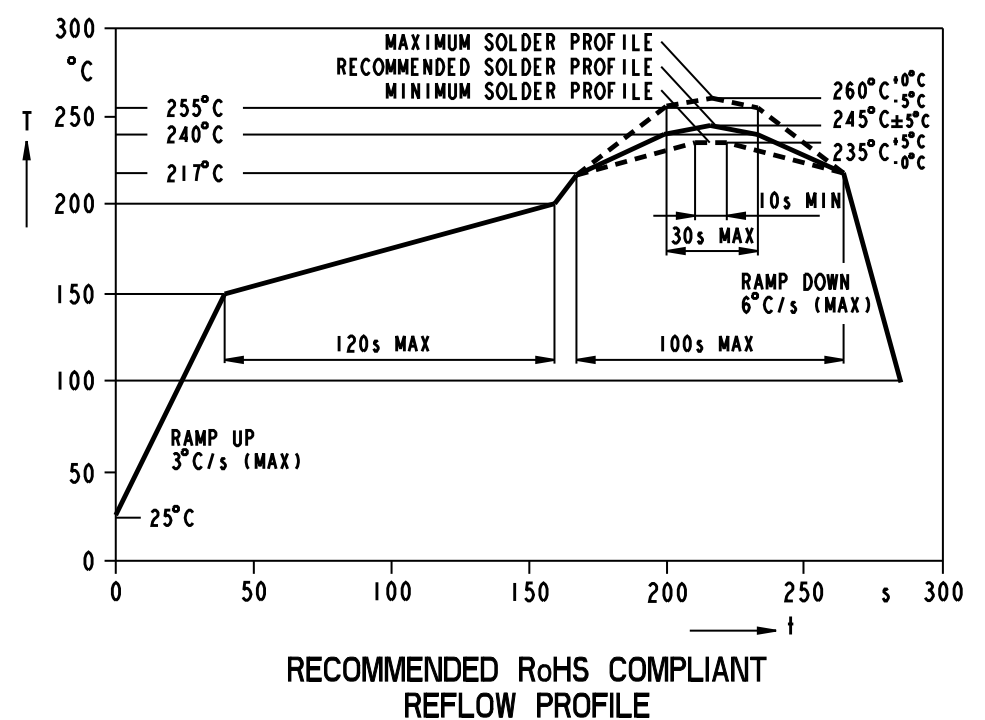
- NOTES:
1. PRODUCT P/N'S WITH "F" SUFFIX ENDING ARE RoHS COMPLIANT. LED LEADS ARE PLATED TIN (Sn) WITH NICKEL (Ni) UNDERPLATE ON COPPER (Cu) LEADS.
  2. STORAGE OF TAPED PARTS SHALL NOT EXCEED TWELVE (12) MONTHS AFTER WHICH RE-PACKAGING IS REQUIRED.
  3. FRONT AND REAR TERMINALS (OF EACH LED) OF THE ASSEMBLY TO BE WITHIN .005 COPLANARITY.
  4. A MOISTURE SENSITIVITY LEVEL LABEL PLACED ON BAG. CHECK CHART FOR PROPER LEVEL.
  5. \*\*\* CAUTION \*\*\*  
FOR PRODUCTS THAT ARE ESD SENSITIVE, OBSERVE PRECAUTIONS IN HANDLING ELECTROSTATIC SENSITIVE DEVICES. FOR EYE SAFETY DO NOT STARE DIRECTLY INTO THE LIGHT BEAM OF THESE LED DEVICES AT CLOSE RANGE.
  6. THIS PRODUCT IS RoHS COMPLIANT. EACH BAG IS MARKED WITH RoHS COMPLIANT LABEL OR EQUIVALENT MARKINGS. LED MUST BE Pb FREE (RoHS COMPLIANT).
  7. DIALIGHT PART NUMBERS: 593-XXXXXX-002F (STRIP)  
593-XXXXXX-013F (REEL)



| MULTI-COLOR LED PIN REFERENCES |                |              |               |                |
|--------------------------------|----------------|--------------|---------------|----------------|
| LED COLOR                      | PIN 1          | PIN 2        | PIN 3         | PIN 4          |
| R/Y BI-COLOR                   | RED CATHODE    | RED ANODE    | YELLOW ANODE  | YELLOW CATHODE |
| Y/G BI-COLOR                   | YELLOW CATHODE | YELLOW ANODE | GREEN ANODE   | GREEN CATHODE  |
| R/G BI-COLOR                   | RED CATHODE    | RED ANODE    | GREEN ANODE   | GREEN CATHODE  |
| R/G/B TRI-COLOR                | RED CATHODE    | COMMON ANODE | GREEN CATHODE | BLUE CATHODE   |



| REV | ECN NO | REVISIONS                                                                                                                                         | DRN | CKD  | APP | DATE    |
|-----|--------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----|---------|
| A   | —      | NEW RELEASE                                                                                                                                       | OO  | N.O. | MS  | 3-28-07 |
| B   | —      | ADDED P/N'S 593-222221-002F, -013F, 593-272129-002F, -013F, 593-292929-002F, -013F, ADDED INTENSITY SPECS, ADDED PIN REFERENCES.                  | KLJ | N.O. | MES | 3-24-08 |
| C   | —      | ADDED P/N'S 593-242320-002F, -013F; AND 593-232424-002F, -013F; MSL FOR 593-292929-002F & 593-353535-002F WAS "2"; UPDATED SPECS; CHANGED NOTE 7. | KLJ | N.O. | MES | 1-15-09 |
| D   | —      | ADDED P/N'S 593-202324-002F, -013F.                                                                                                               | KLJ | N.O. | MES | 1-26-09 |
| E   | —      | ADDED P/N'S 593-203120-002F, -013F.                                                                                                               | KLJ | NO   | MES | 2-19-09 |
| F   | —      | ADDED P/N'S 593-232627-002F, -013F.                                                                                                               | AJF | KLJ  | NO  | 7-1-09  |



ATTENTION:  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

|                                                                                                                                                                                                                               |                |                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------|
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| SCALE: 4.000                                                                                                                                                                                                                  | DRAWING NUMBER | REV                                          |
| ALL DIM'S IN: INCHES (MM)                                                                                                                                                                                                     | C-17270        | F                                            |
| TOLERANCES: UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                        | TITLE          | TRI-LEVEL PRISM                              |
| FRACTIONS: ±1/64                                                                                                                                                                                                              | MATERIAL       | RoHS COMPLIANT                               |
| DECIMALS (.XX): ±.02                                                                                                                                                                                                          | Dialight       | 1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |
| DECIMALS (.XXX): ±.015                                                                                                                                                                                                        | ANGLES: ±3°    |                                              |
| FINISH:                                                                                                                                                                                                                       |                |                                              |
| FSCM 83330                                                                                                                                                                                                                    | SHEET 1 OF 1   | FAMILY TABLE:                                |

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<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.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

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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