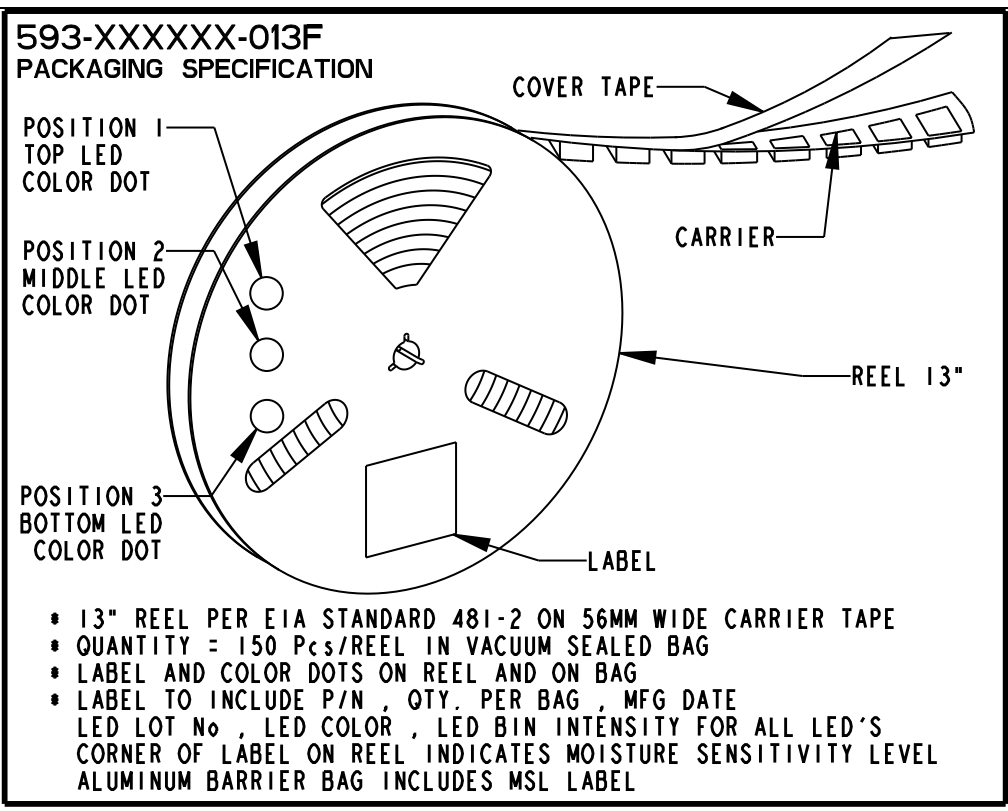
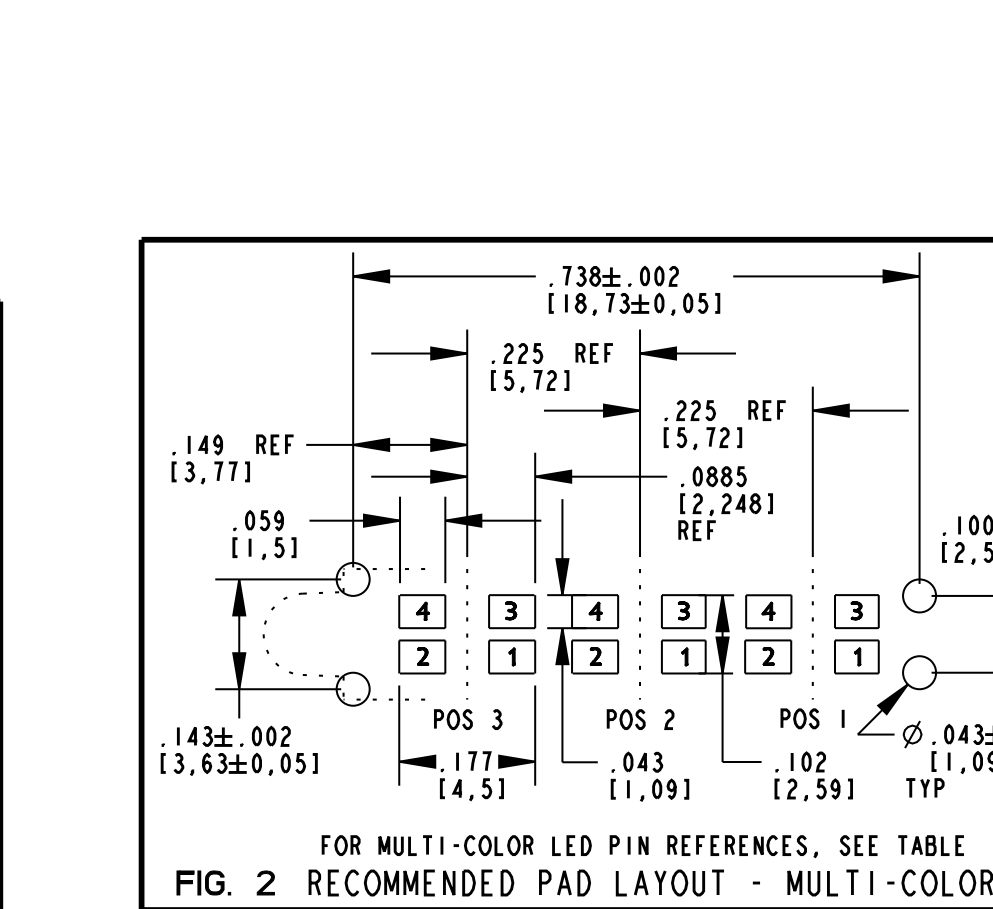
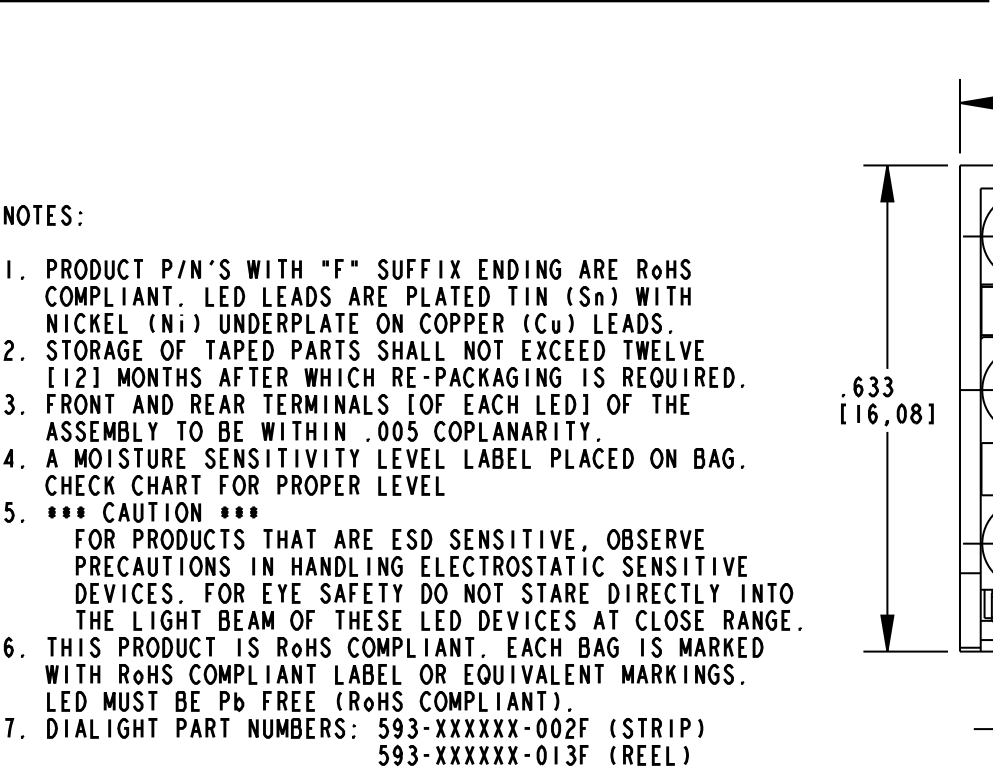
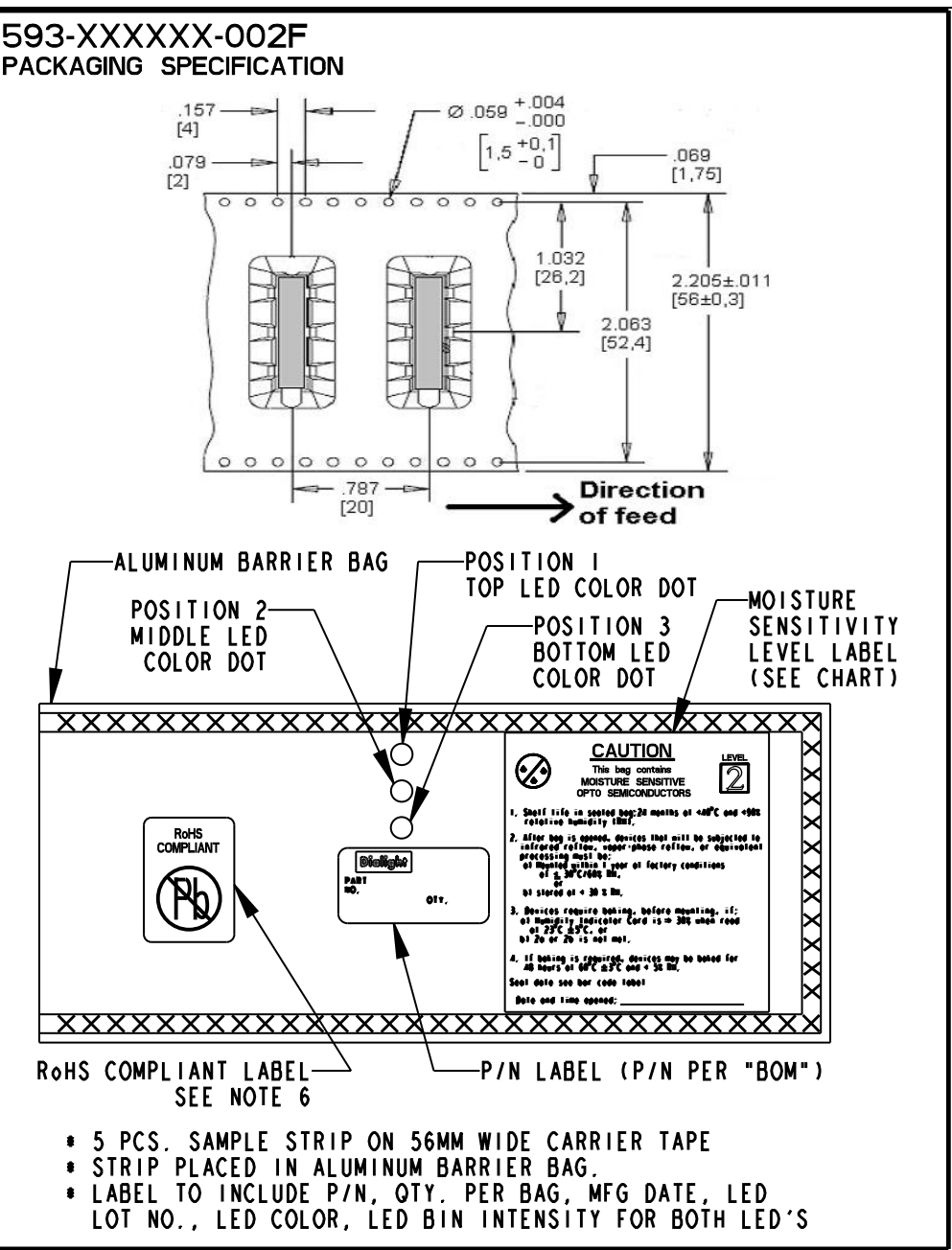
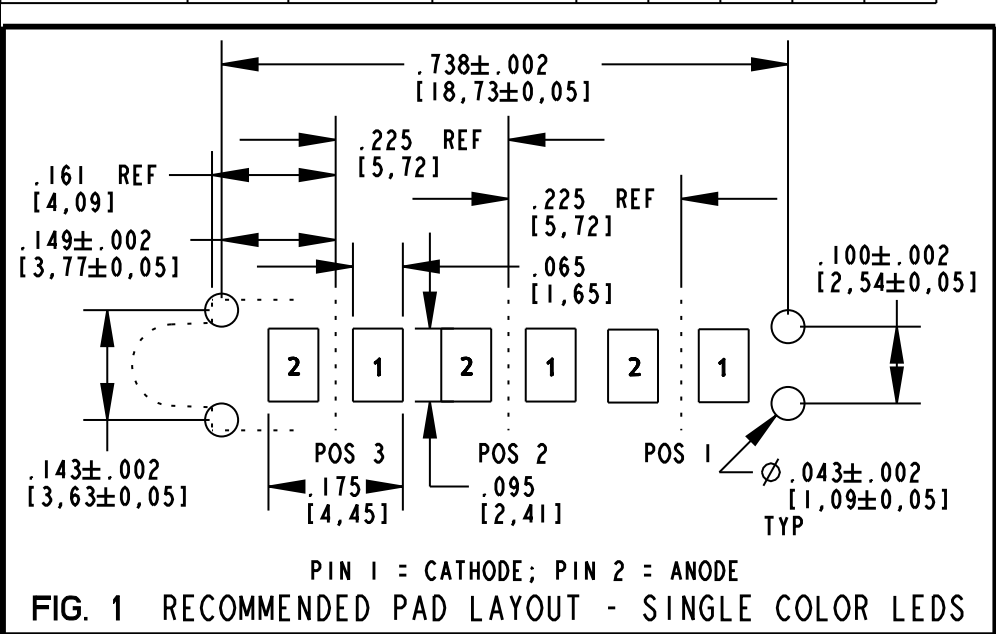
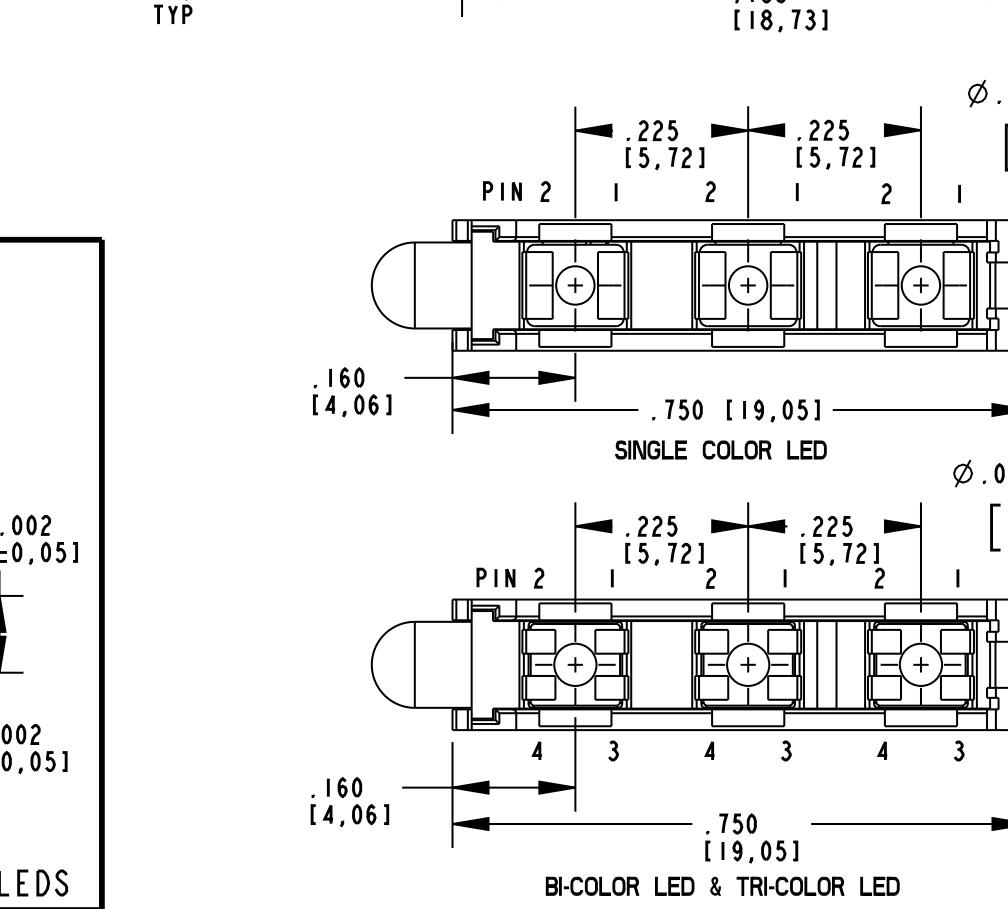
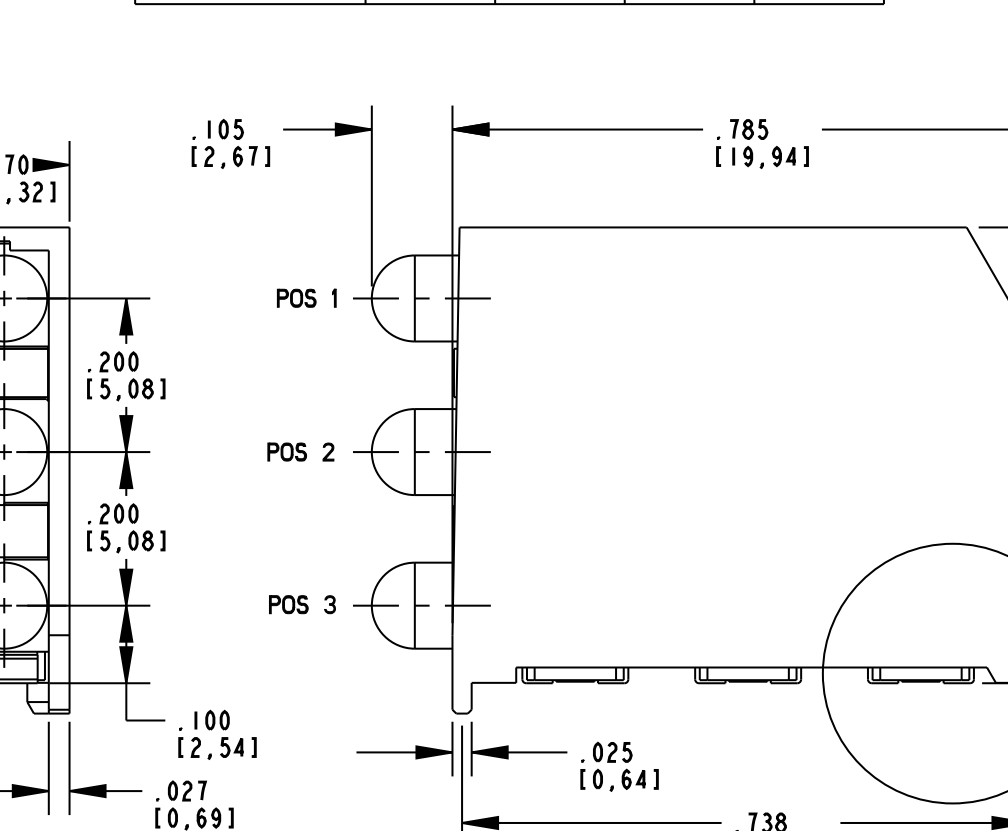


| PART NUMBER     | POSITION 1             | POSITION 2             | POSITION 3             | MSL | PAD LAYOUT REFERENCE |
|-----------------|------------------------|------------------------|------------------------|-----|----------------------|
| 593-202020-002F | RED                    | RED                    | 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 |                        |                        |                        |     |                      |

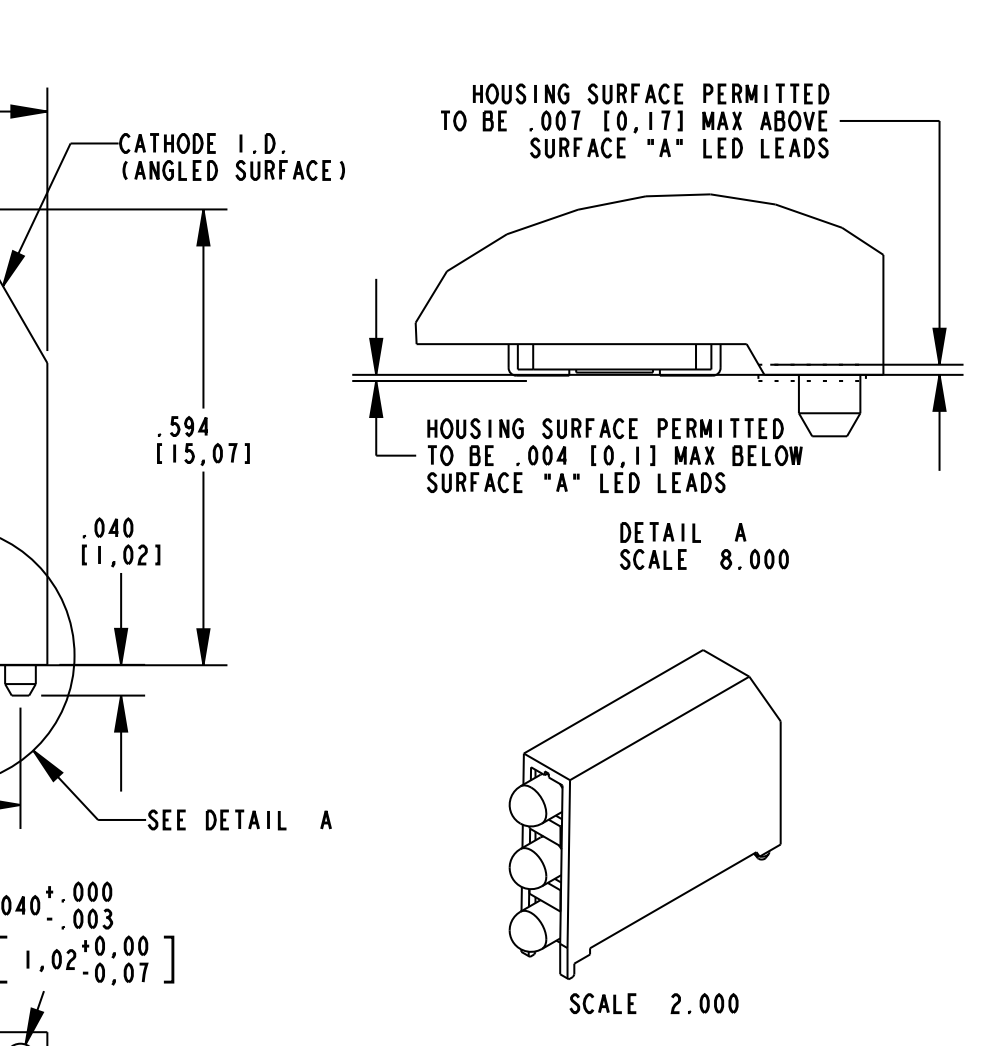
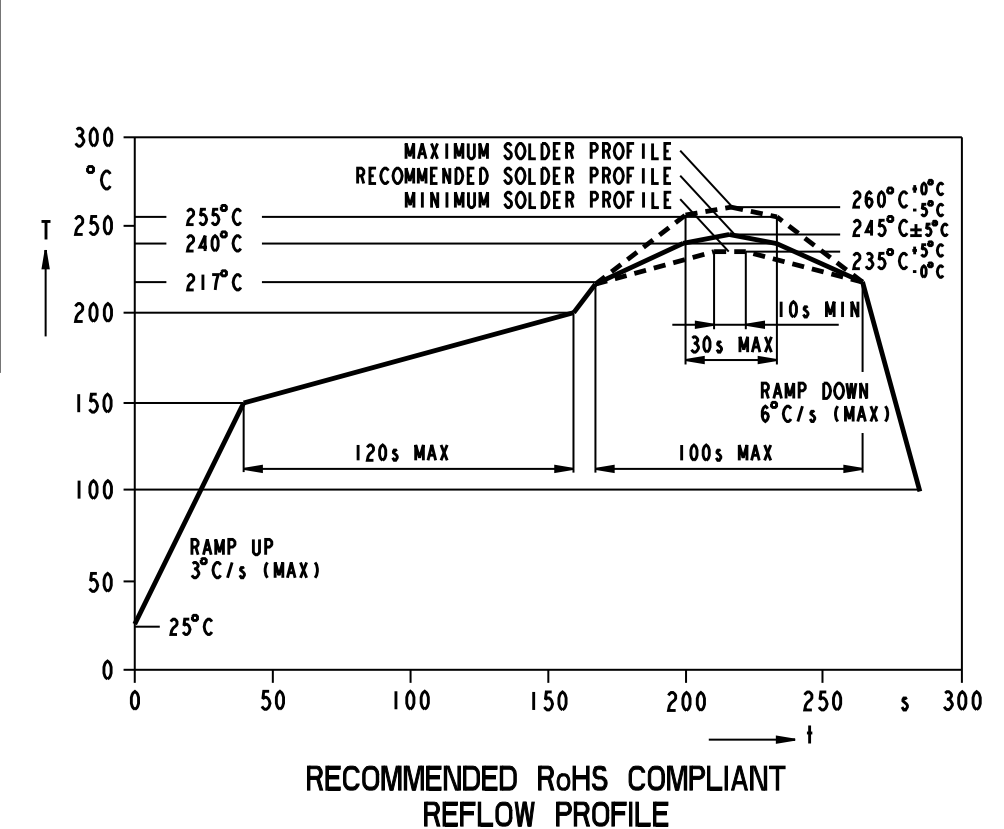
| OPERATING CHARACTERISTICS AT 25°C AMBIENT |        |                                |                     |      |      |                          |                |     |
|-------------------------------------------|--------|--------------------------------|---------------------|------|------|--------------------------|----------------|-----|
| COLOR                                     |        | LUMINOUS INTENSITY<br>@If=20mA | FORWARD VOLTAGE (V) |      |      | DOMINANT WAVELENGTH (nm) |                |     |
|                                           |        | TYP                            | TEST COND           | TYP  | MAX  | MIN                      | TYP            | MAX |
| 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 |



| 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           |                                           |
| FRACTIONS: ±1/64                                                                                                                                                                                                              | TRI-LEVEL PRISM |                                           |
| DECIMALS (.XX): ±.02                                                                                                                                                                                                          | MATERIAL        |                                           |
| DECIMALS (.XXX): ±.015                                                                                                                                                                                                        | RoHS COMPLIANT  |                                           |
| ANGLES: ±3°                                                                                                                                                                                                                   |                 |                                           |
| FINISH:                                                                                                                                                                                                                       |                 |                                           |
| FSCM 83330                                                                                                                                                                                                                    | Dialight        | 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 |
|                                                                                                                                                                                                                               | SHEET 1 OF 1    | FAMILY TABLE:                             |