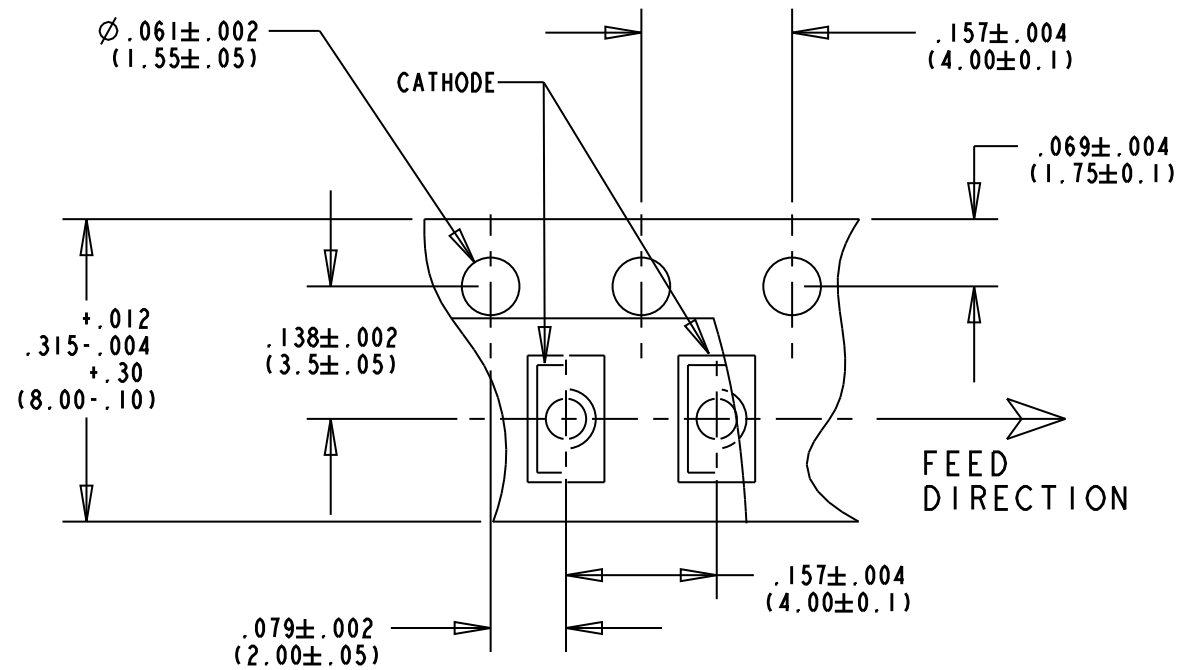
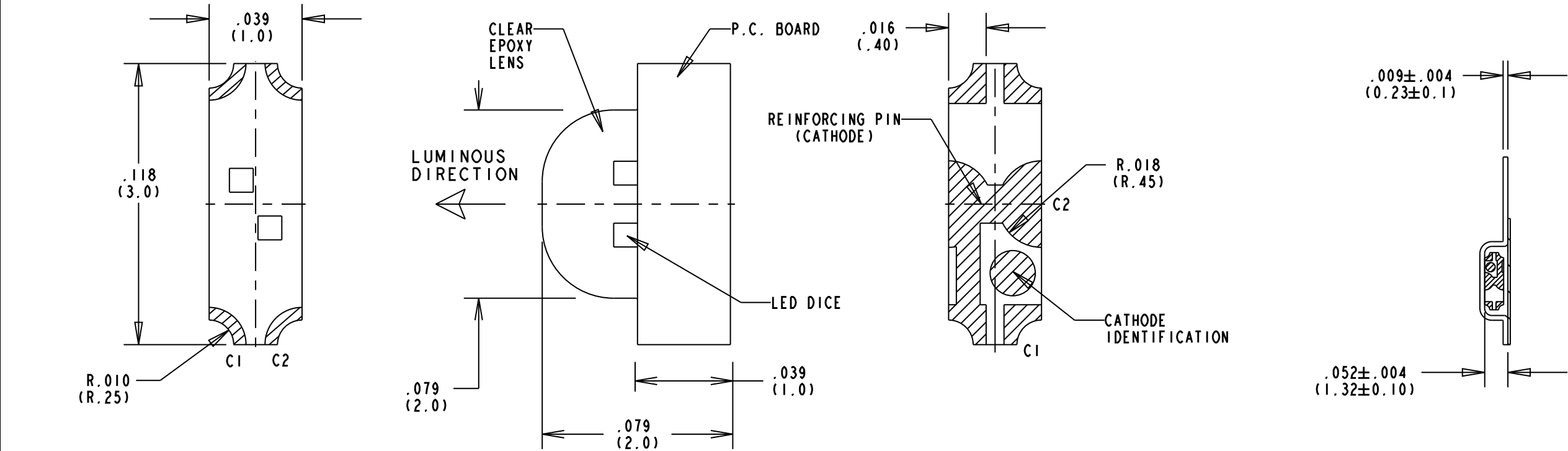
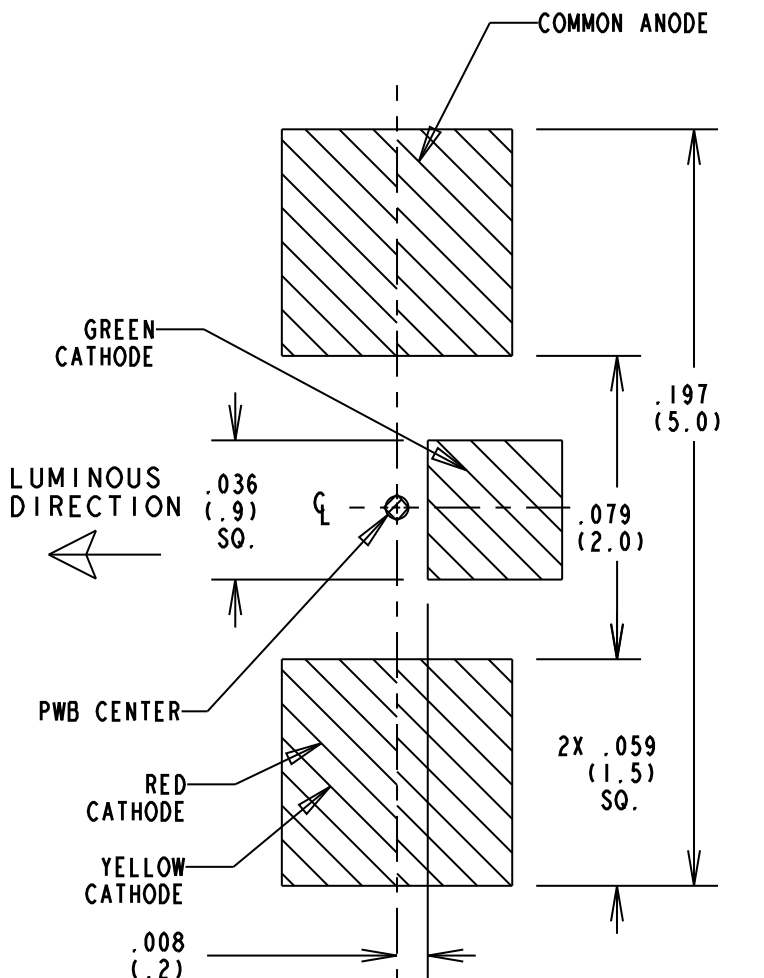
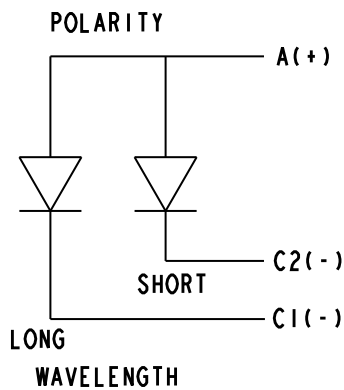


| DIALIGHT<br>CATALOG<br>P/N | COLOR<br>WATER<br>CLEAR<br>EPOXY<br>LENS | DOMINANT<br>WAVELENGTH<br>I <sub>f</sub> =20mA<br>(nm) |      |      | PEAK<br>EMISSION<br>WAVELENGTH<br>I <sub>f</sub> =20mA<br>λ <sub>PK</sub> (nm) | SPECTRAL<br>LINE HALF<br>WIDTH<br>Δλ (nm)<br>I <sub>f</sub> =20mA<br>TYP | LUMINOUS<br>INTENSITY<br>(mcd)@I <sub>f</sub> =20mA;<br>25°C |      |       | FORWARD VOLTAGE<br>(V) @ I <sub>f</sub> = 20mA;<br>25°C |      | REVERSE CURRENT<br>(μA); 25 C | VIEWING<br>ANGLE<br>(2 Ø 1/2)<br>(DEG.) |
|----------------------------|--|--|------|------|--|--|--|------|-------|---|------|-------------------------------|---|
|                            |  | MIN.   | TYP. | MAX. |  |  | MIN.   | TYP. | MAX.  | TYP.  | MAX. | MAX.                          | TYP                                     |
| 597-2723-602F,             | GREEN                                    | 567  | 571  | 576  | 574  | 15   | 18.0   | 35.0 | 112.0 | 2.0   | 2.4  | 10 @ V <sub>R</sub> = 5 V     | 130                                     |
| 597-2723-607F              | YELLOW                                   | 582  | 589  | 597  | 591  | 15   | 28.0   | 75.0 | 118.0 | 2.0   | 2.4  | 10 @ V <sub>R</sub> = 5 V     | 130                                     |
| 597-2751-602F,             | RED                                      | —  | 631  | —    | 639  | 20   | 18.0   | 45.0 | —     | 2.0   | 2.4  | 10 @ V <sub>R</sub> = 5 V     | 130                                     |
| 597-2751-607F              | GREEN                                    | 567  | 571  | 576  | 574  | 15   | 18.0   | 35.0 | 112.0 | 2.0   | 2.4  | 10 @ V <sub>R</sub> = 5 V     | 130                                     |

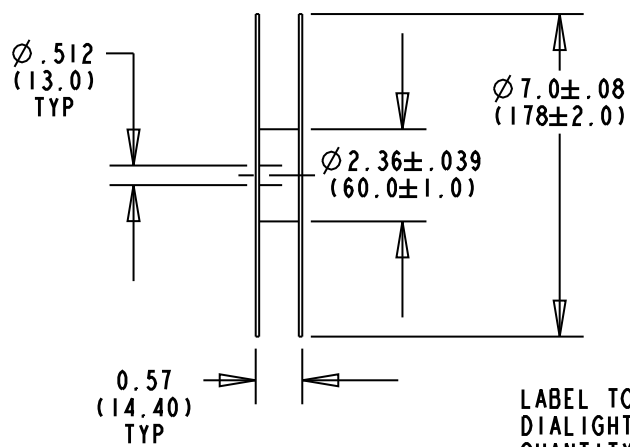
| REV | ECN NO | REVISIONS  | DRN | CKD  | APP | DATE    |
|-----|--------|--|-----|------|-----|---------|
| A   | —      | NEW RELEASE  | TWC | N.O. | MES | 3-21-06 |
| B   | —      | GRN MIN LUM INT "18.0" WAS "20.0";<br>YEL MIN LUM INT "28.0" WAS "20.0";<br>YEL TYP LUM INT "75.0" WAS "30.0";<br>GRN & YEL MAX REVERSE CURRENT "10"<br>WAS "100"; "WAVE" WAS "INFRARED" IN<br>ABS MAX RATINGS TABLE; RED LINEAR<br>DERATION "0.42" WAS "0.4"; MSL<br>LEVEL IN NOTE 8 WAS "4"; "168" WAS<br>"72" IN NOTE 9; ADDED NOTE 13. | KLJ | NO   | MES | 5-2-08  |
| C   | —      | ADDED MIN AND MAX DOMINANT<br>WAVELENGTH; ADDED MAX<br>LUMINOUS INTENSITY.   | AJF | KLJ  | NO  | 9-16-09 |



TAPING SPECIFICATION  
NO SCALE



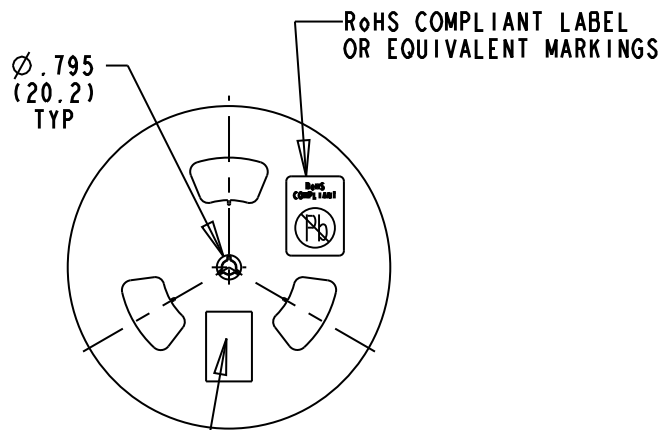
RECOMMENDED SOLDERING PAD



LABEL TO CONTAIN: DIALIGHT LOGO  
DIALIGHT CATALOG PART NUMBER,  
QUANTITY, DATE OF MANUFACTURE,  
LOT NUMBER, RANK OF LUMINOUS  
INTENSITY, COUNTRY OF ORIGIN.

(QUANTITY: 3,000 PCS/REEL)

REEL SPECIFICATION  
NO SCALE

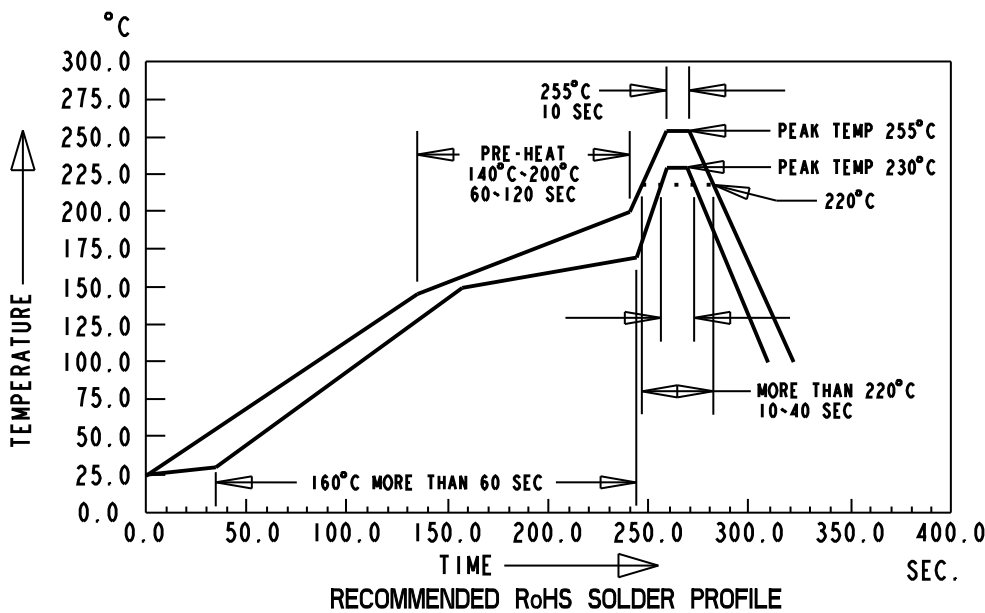


ATTENTION:  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

NOTES:

1. AlInGaP FOR RED, GREEN, YELLOW
2. EPOXY COLOR: WATER CLEAR.
3. SOLDER PAD: COPPER BASE, GOLD PLATED.
4. SOLDER ADHERANCE PER MIL. STD. 202E, METHOD 208C.
5. PARTS TAPED AND REELED PER ANSI/EIA 481-1-A-1994 SPECS.
6. PARTS SUPPLIED 3,000 PIECES PER REEL WITH ALL PARTS ON ONE REEL FROM SAME LOT AND SAME BIN CATEGORY.
7. REEL PACKED IN ANTI-HUMIDITY ALUMINIUM FOIL BAG, HEAT SEALED WITH SILICA GEL. LABEL ON BAG TO CONTAIN SAME INFORMATION AS LABEL ON REEL.
8. DEVICE HAS A MOISTURE SENSITIVITY LEVEL "3" CAUTION LABEL APPLIED AS PER JEDEC STD. .033.
9. STORAGE CONDITION: 5 TO 30°C @ 70% RH MAX. BAKING IS REQUIRED IF THE PACK HAS BEEN OPENED FOR 168 HOURS OR MORE. BAKING RECOMMENDED CONDITION: 60±5°C FOR 24 HOURS.
10. TAPE AND REEL LED'S MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.
11. DIALIGHT PART NUMBER: 597-2723-607F, -602F; 597-2751-607F, -602F
12. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.
13. -602F SUFFIX DESIGNATES 20 PC SAMPLE STRIP -607F SUFFIX DESIGNATES 7 INCH REEL

| ABSOLUTE MAXIMUM RATINGS AT 25°C.                        | GREEN             | YELLOW | RED  | UNITS |
|--|-------------------|--------|------|-------|
| POWER DISSIPATION  | 75                | 75     | 75   | mW    |
| PEAK FORWARD CURRENT (1/10 DUTY CYCLE,0.1ms PULSE WIDTH) | 80                | 80     | 80   | mA    |
| DC FORWARD CURRENT                                       | 30                | 30     | 30   | mA    |
| DERATING LINEAR FROM 50°C,RED 25°C                       | 0.4               | 0.4    | 0.42 | mA/°C |
| REVERSE VOLTAGE  | 5                 |        |      | V     |
| OPERATING TEMPERATURE RANGE                              | -55 TO +85        |        |      | °C    |
| STORAGE TEMPERATURE                                      | -55 TO +85        |        |      | °C    |
| WAVE SOLDERING CONDITION                                 | 260 FOR 5 SECONDS |        |      | °C    |



RoHS COMPLIANT 597-27XX-602F, -607F

Part Numbers with the "F" suffix ending are RoHS Compliant.  
For example: 597-2723-607F  
Reel and bag packaging are marked with "RoHS Compliant" label or equivalent markings. These parts can be used with RoHS reflow profile. Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.

|   |                                     |     |
|---|-------------------------------------|-----|
| 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: 20:1   | DRAWING NUMBER                      | REV |
| ALL DIM'S IN: INCHES (MM)   | C-17385                             | C   |
| TOLERANCES: UNLESS OTHERWISE SPECIFIED  | TITLE RIGHT ANGLE SURFACE MOUNT LED |     |
| FRACTIONS: ±1/64  | RoHS COMPLIANT                      |     |
| DECIMALS (.XX): ±.01  | MATERIAL                            |     |
| DECIMALS (.XXX): ±.005  | Dialight                            |     |
| DECIMALS (.XXXX): ±.0005  | 1501 ROUTE 34 SOUTH                 |     |
| ANGLES: ±1°   | FARMINGDALE, NJ 07727               |     |
| FINISH:   | FSCM 83330                          |     |
| SHEET 1 OF 1  | FAMILY TABLES:                      |     |

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