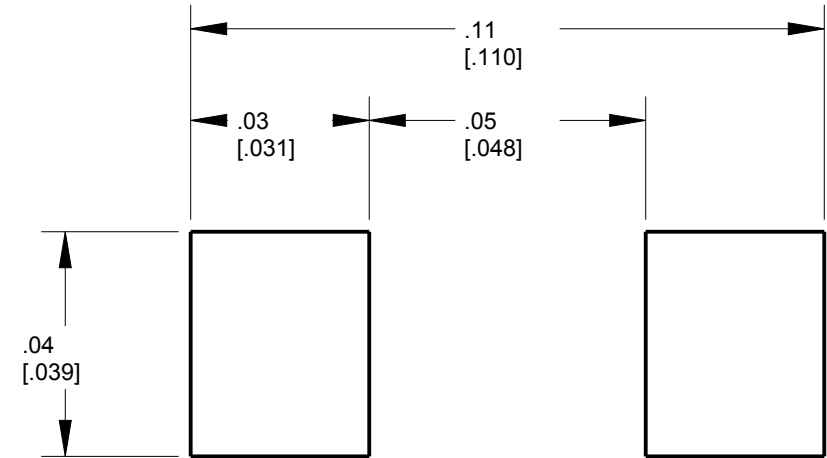
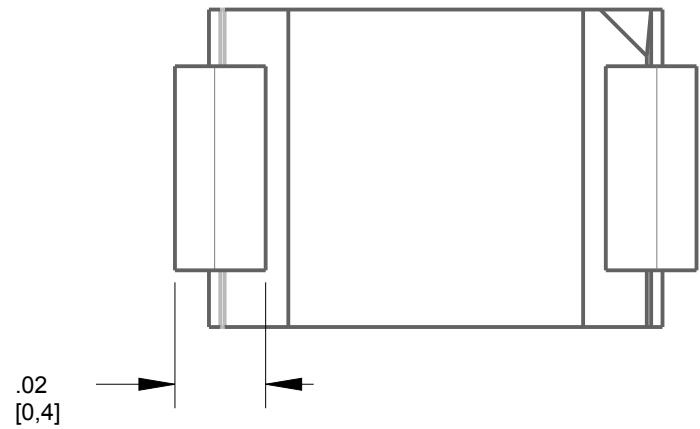
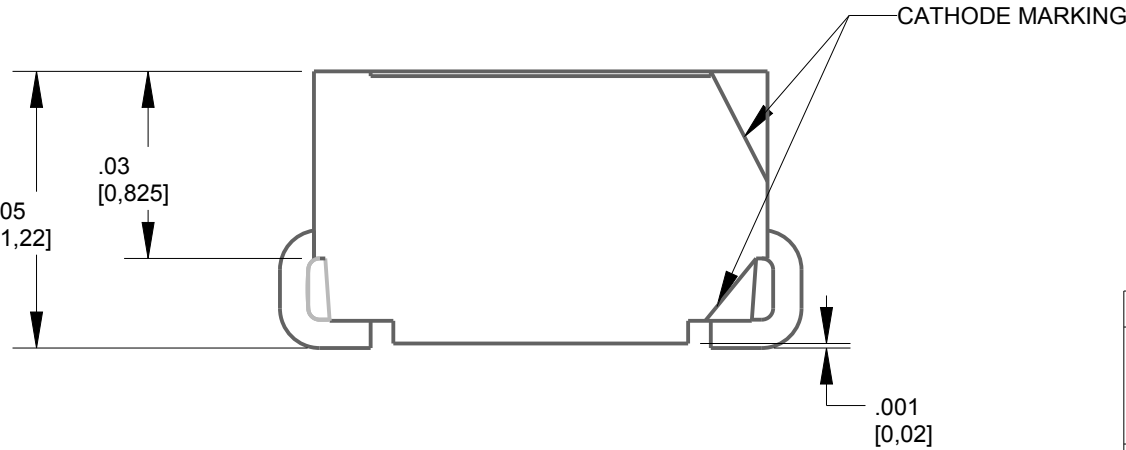
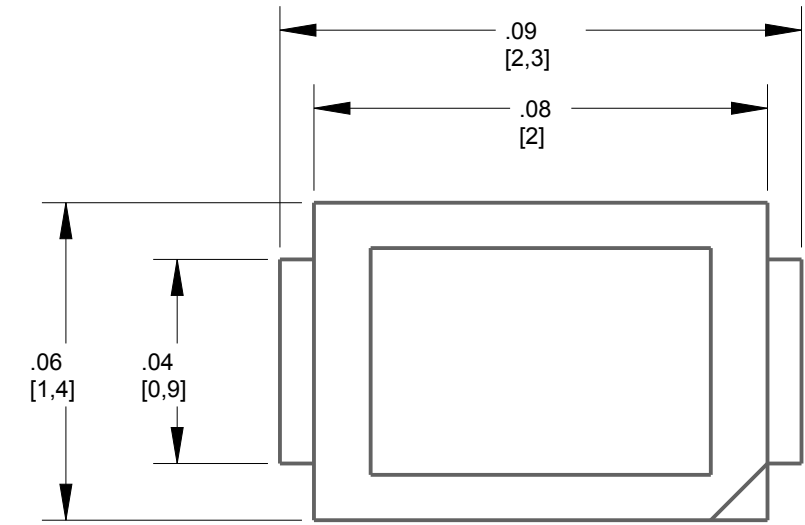
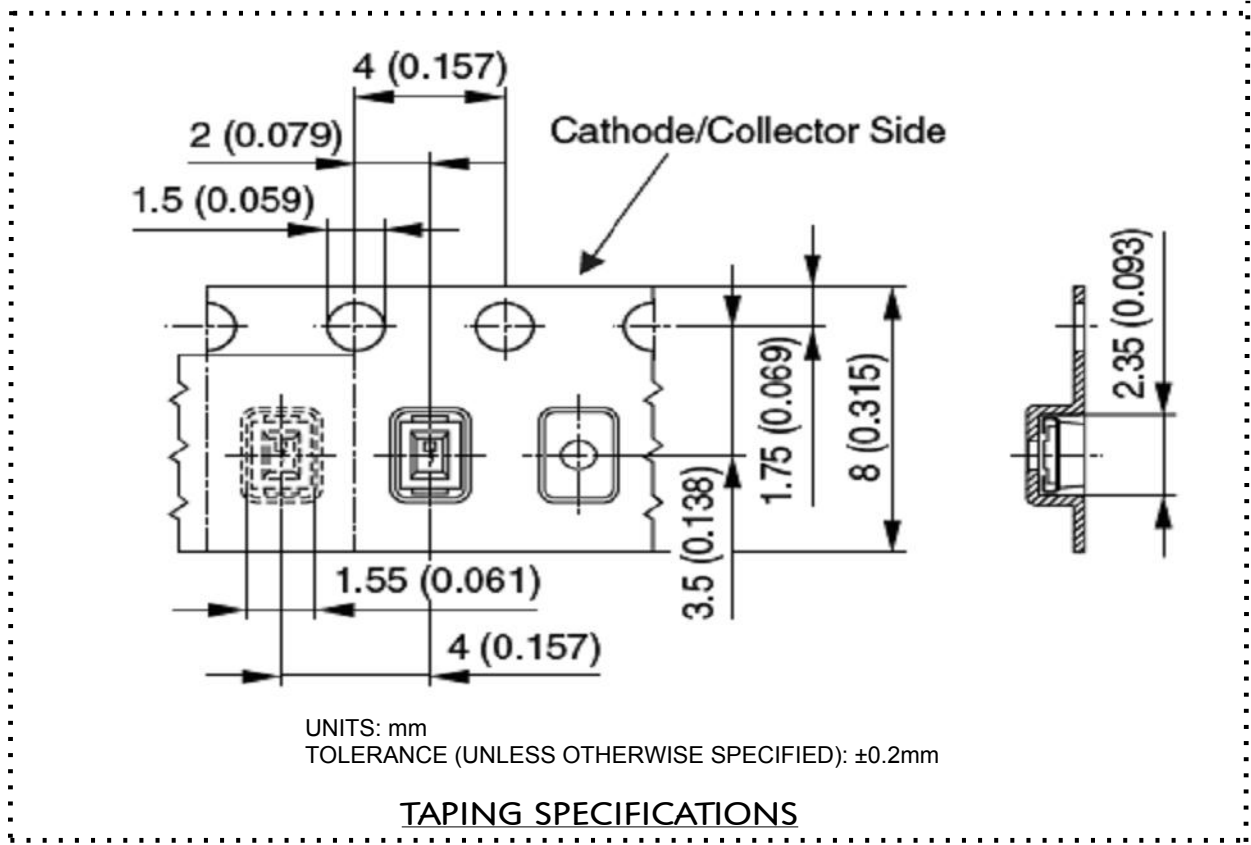


| PART NUMBER  | LED COLOR (nm) |
|--------------|----------------|
| 597C3008202F | RED (630)      |
| 597C3008207F |                |
| 597C3208202F | ORANGE (606)   |
| 597C3208207F |                |
| 597C3408202F | YELLOW (588)   |
| 597C3408207F |                |
| 597C3608202F | ICE BLUE       |
| 597C3608207F |                |
| 597C3908202F | WHITE          |
| 597C3908207F |                |



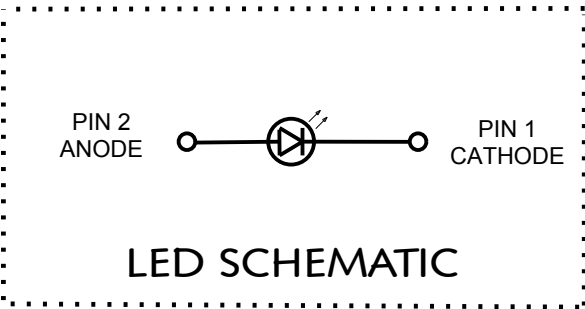
RECOMMENDED SOLDER PAD LAYOUT



TAPING SPECIFICATIONS

| ABSOLUTE MAXIMUM RATINGS AT 25 °C |                      |                                       |                     |                               |                            |                          |                           |
|-----------------------------------|----------------------|---------------------------------------|---------------------|-------------------------------|----------------------------|--------------------------|---------------------------|
| LED COLOR (nm)                    | FORWARD CURRENT (mA) | SURGE CURRENT (mA)<br>t<10μs; D =.005 | REVERSE VOLTAGE (V) | ELECTROSTATIC DISCHARGE (ESD) | OPERATING TEMPERATURE (°C) | STORAGE TEMPERATURE (°C) | JUNCTION TEMPERATURE (°C) |
| RED (630)                         | 20                   | 100                                   | 12                  | 2000                          | -40 TO +100                | -40 TO +100              | 100                       |
| ORANGE (606)                      | 20                   | 100                                   |                     |                               |                            |                          |                           |
| YELLOW (588)                      | 20                   | 100                                   |                     |                               |                            |                          |                           |
| ICE BLUE                          | 15                   | 150                                   | 5                   |                               |                            |                          |                           |
| WHITE                             | 20                   | 200                                   |                     |                               |                            |                          |                           |

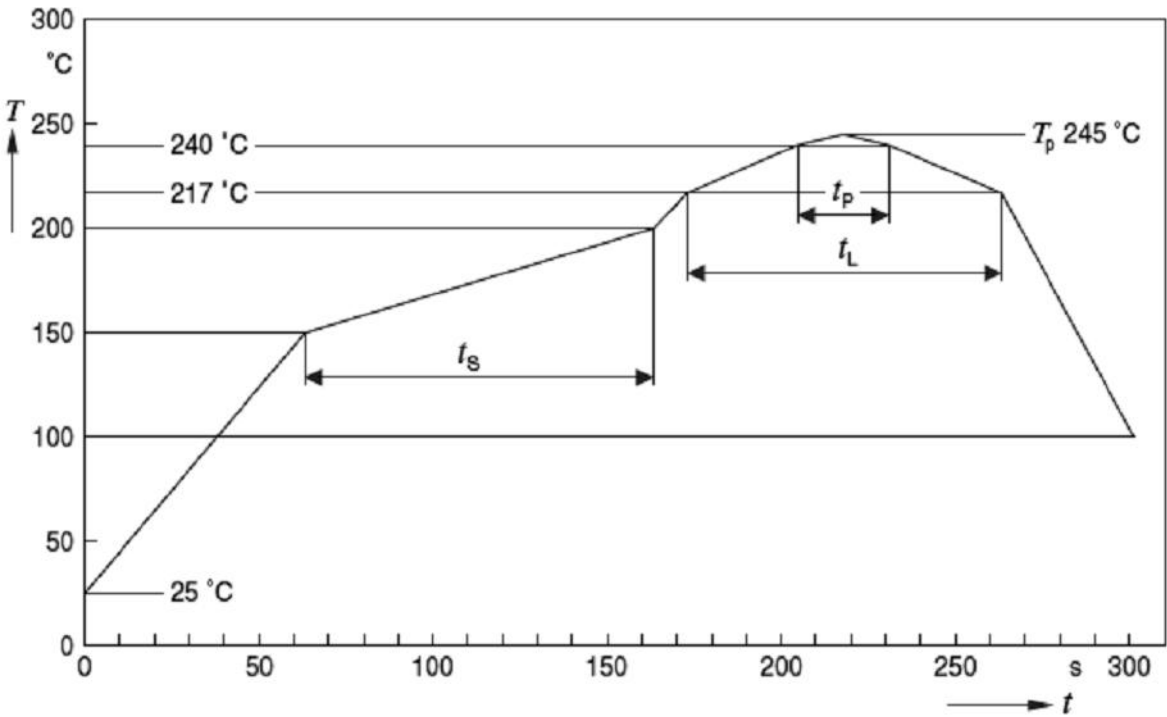
| OPERATING CHARACTERISTICS AT 25 °C |                |                       |     |                          |      |      |                          |     |     |                 |                         |      |     |                        |                     |
|------------------------------------|----------------|-----------------------|-----|--------------------------|------|------|--------------------------|-----|-----|-----------------|-------------------------|------|-----|------------------------|---------------------|
| LED COLOR (nm)                     | TEST CONDITION | CHROMACITY COORDINATE |     | LUMINOUS INTENSITY (mcd) |      |      | DOMINANT WAVELENGTH (nm) |     |     | REVERSE CURRENT | FORWARD VOLTAGE IF=20mA |      |     | THERMAL RESISTANCE K/W | VIEWING ANGLE (DEG) |
|                                    | IF (mA)        | Cx                    | Cy  | MIN                      | TYP  | MAX  | MIN                      | TYP | MAX | MAX             | MIN                     | TYP  | MAX | MAX                    | @ 50% IV            |
| RED (630)                          | 2              |                       |     | 3.55                     | 9    | 14   | 624                      | 630 | 636 | 10 uA @VR=12V   | 1.7                     | 1.8  | 2.2 | 280                    | 120                 |
| ORANGE (606)                       |                |                       |     | 5.6                      | 14   | 22.4 | 600                      | 606 | 609 |                 | 1.7                     | 1.8  | 2.2 |                        |                     |
| YELLOW (588)                       |                |                       |     | 4.5                      | 11   | 18   | 580                      | 587 | 595 |                 | 1.7                     | 1.8  | 2.2 |                        |                     |
| ICE BLUE                           |                | 0.2                   | 0.3 | 9                        | 15.7 | 22.4 |                          |     |     |                 | 2.5                     | 2.75 | 3.1 | 230                    |                     |
| WHITE                              |                | .33                   | .33 | 9                        | 23   | 36   |                          |     |     |                 | 2.5                     | 2.75 | 3.1 |                        |                     |



LED SCHEMATIC

| REV | REVISIONS                                                                   | DRN | APP | DATE    |
|-----|-----------------------------------------------------------------------------|-----|-----|---------|
| A   | NEW RELEASE                                                                 | LD  | NO  | 1-9-19  |
| B   | ADDED CHROMACITY COORDINATE AND VIEWING ANGLE                               | LD  | NO  | 4-25-19 |
| C   | REVISED PART NUMBERS<br>ADDED ESD, JUNCTION TEMP & THERMAL RESISTANCE VALUE | LD  | NO  | 5-17-19 |

RECOMMENDED RoHS SOLDER PROFILE



| MARK              | DEFINITION                         | CONDITION       |
|-------------------|------------------------------------|-----------------|
| TS <sub>max</sub> | Maximum of pre-heating temperature | 260 °C          |
| TS <sub>min</sub> | Minimum of pre-heating temperature | 150 °C          |
| T <sub>s</sub>    | Time form Tmin to Tmax             | 60-120 sec      |
| T <sub>L</sub>    | Reference temperature              | 217 °C          |
| t <sub>L</sub>    | Retention time for TL              | within 80s      |
| T <sub>P</sub>    | Peak Temperature                   | 245 °C          |
| t <sub>P</sub>    | Time for peak temperature          | within 20s      |
| DTr/Dt            | Temperature rising rate            | under 3 °C/sec  |
| DTd/Dt            | Temperature decreasing rate        | under -3 °C/sec |



ATTENTION:  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

|                                                                                                                                                                                                                                                  |                                                                                                                      |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------|
| THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE<br>PROPERTY OF DIALIGHT CORP. REPRODUCTION OF THIS DRAWING OR<br>CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT<br>THE WRITTEN CONSENT OF DIALIGHT CORP. |                                                                                                                      |               |
| DIALIGHT CORP INTERNAL REFERENCE ONLY = 3D MODEL : 4500521848X15-A-1                                                                                                                                                                             |                                                                                                                      |               |
| SCALE: 30.00                                                                                                                                                                                                                                     | DRAWING NUMBER                                                                                                       | REV           |
| ALL DIM'S IN: INCHES (MM)                                                                                                                                                                                                                        | C-18410                                                                                                              | C             |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                                        |                                                                                                                      |               |
| FRACTIONS: ± 1/64<br>DECIMALS (XX): ±.01<br>DECIMALS (XXX): ±.005<br>DECIMALS (XXXX): ±.0005<br>ANGLES: ± 1°                                                                                                                                     | TITLE                                                                                                                |               |
|                                                                                                                                                                                                                                                  | MINI-PLCC2 PACKAGE                                                                                                   |               |
|                                                                                                                                                                                                                                                  | MATERIAL                                                                                                             |               |
| FINISH                                                                                                                                                                                                                                           | <div>Dialight</div> <div>1501 ROUTE 34 SOUTH<br/>FARMINGDALE, NJ 07727<br/>(732) 919-3119<br/>www.dialight.com</div> |               |
| FSCM 83330                                                                                                                                                                                                                                       | SHEET 1 OF 1                                                                                                         | FAMILY TABLE: |