

| PART NUMBER   | LED COLOR      |
|---------------|----------------|
| 595-2101-002F | RED            |
| 595-2101-007F |                |
| 595-2101-013F |                |
| 595-2701-002F | AlInGaP YELLOW |
| 595-2701-007F |                |
| 595-2701-013F |                |

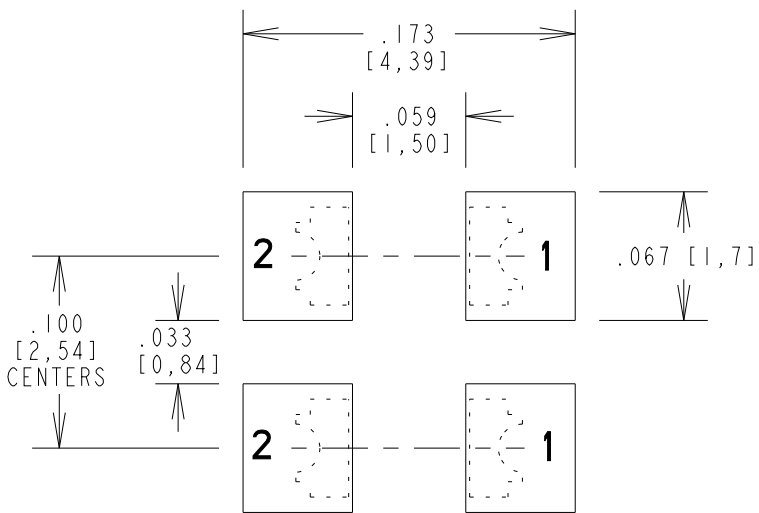
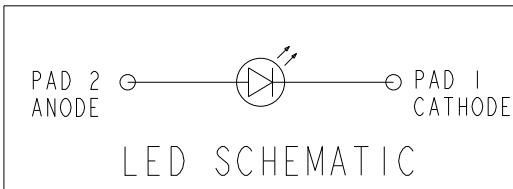
| OPERATING CHARACTERISTICS AT 25°C AMBIENT |     |     |      |     |       |                         |
|-------------------------------------------|-----|-----|------|-----|-------|-------------------------|
| CHARACTERISTICS                           |     | MIN | TYP  | MAX | UNITS | TEST CONDITIONS         |
| LUMINOUS INTENSITY                        | RED |     | 25.0 |     | mc d  | I <sub>F</sub> = 20 mA  |
| FORWARD VOLTAGE                           | RED |     | 1.7  | 2.0 | V     | I <sub>F</sub> = 20 mA  |
| REVERSE VOLTAGE                           | RED | 4   |      |     | V     | I <sub>R</sub> = 100 μA |
| PEAK WAVELENGTH                           | RED |     | 660  |     | nm    |                         |
| DOMINANT WAVELENGTH                       | RED |     | 647  |     | nm    |                         |

| ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT                      | COLOR | VALUE      | UNITS |
|---------------------------------------------------------------|-------|------------|-------|
| POWER DISSIPATION                                             | RED   | 60         | mW    |
| DERATE LINEARLY FROM 25°C                                     | RED   | 0.42       | mA/°C |
| CONTINUOUS FORWARD CURRENT                                    | RED   | 30         | mA    |
| PEAK FORWARD CURRENT<br>(1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH) | RED   | 70         | mA    |
| OPERATING TEMPERATURE                                         | RED   | -30 TO +85 | °C    |
| STORAGE TEMPERATURE                                           | RED   | -30 TO 80  | °C    |

| OPERATING CHARACTERISTICS AT 25°C AMBIENT |                |     |      |     |       |                        |
|-------------------------------------------|----------------|-----|------|-----|-------|------------------------|
| CHARACTERISTICS                           |                | MIN | TYP  | MAX | UNITS | TEST CONDITIONS        |
| LUMINOUS INTENSITY                        | AlInGaP YELLOW |     | 41.0 |     | mc d  | I <sub>F</sub> = 10 mA |
| FORWARD VOLTAGE                           | AlInGaP YELLOW |     | 2.02 | 2.4 | V     | I <sub>F</sub> = 20 mA |
| REVERSE CURRENT                           | AlInGaP YELLOW |     |      | 100 | μA    | V <sub>R</sub> = 5V    |
| PEAK WAVELENGTH                           | AlInGaP YELLOW |     | 592  |     | nm    |                        |
| DOMINANT WAVELENGTH                       | AlInGaP YELLOW | 582 | 590  | 597 | nm    |                        |

| ABSOLUTE MAXIMUM RATING AT 25°C AMBIENT |                |             | UNITS |
|-----------------------------------------|----------------|-------------|-------|
| POWER DISSIPATION                       | AlInGaP YELLOW | 81          | mW    |
| DERATE LINEARLY FROM 75°C (* FROM 55°C) | AlInGaP YELLOW | 0.58 *      | mA/°C |
| CONTINUOUS FORWARD CURRENT              | AlInGaP YELLOW | 30          | mA    |
| OPERATING TEMPERATURE                   | AlInGaP YELLOW | -30 TO +85  | °C    |
| STORAGE TEMPERATURE                     | AlInGaP YELLOW | -40 TO +100 | °C    |

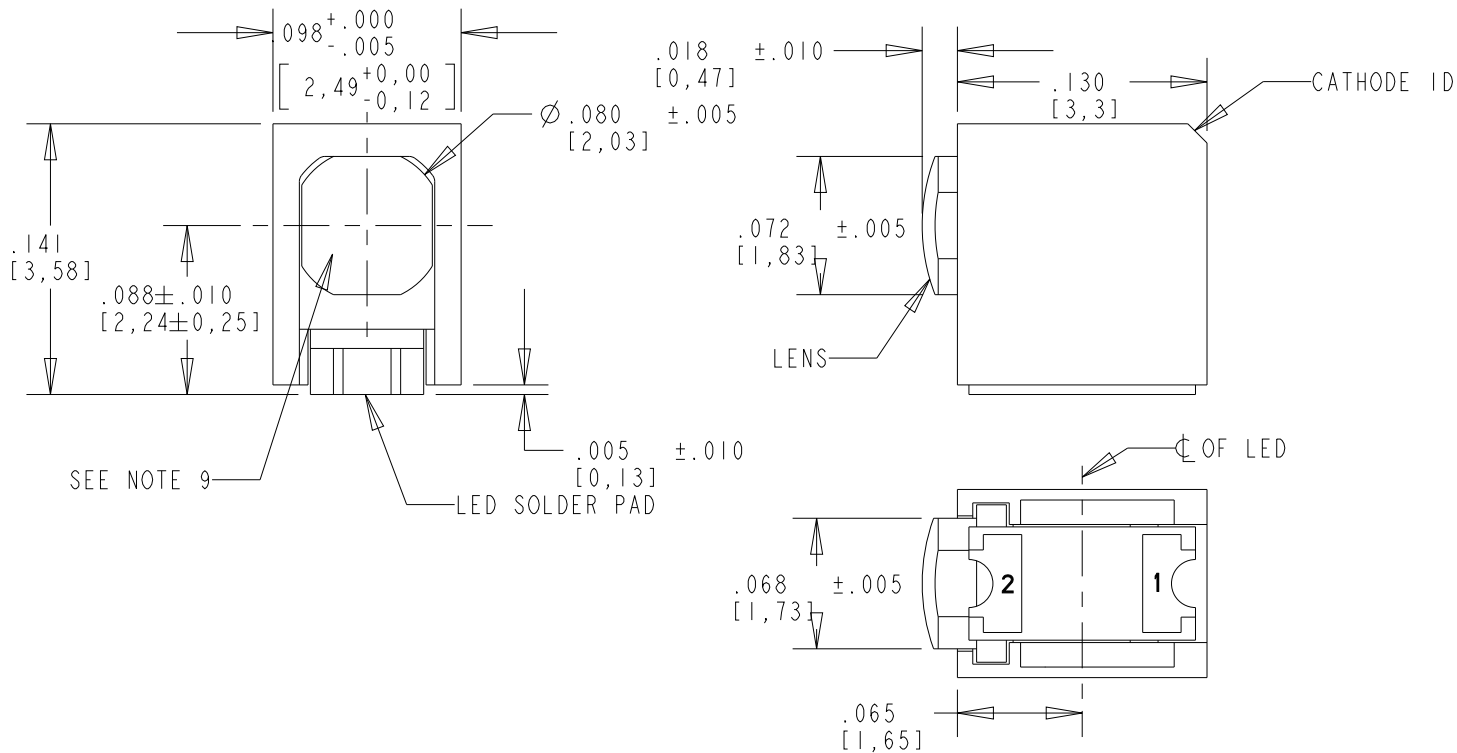
| REV | ECN NO | REVISIONS                                                                                                                                                                                                                                                 | DRN | CKD  | APP | DATE    |
|-----|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----|---------|
| A   | —      | NEW RELEASE                                                                                                                                                                                                                                               | TWC | N.O. | MES | 1-12-06 |
| B   | —      | MSL "3" WAS "4" IN NOTE 7, ADDED P/N'S 595-2201-002F, 595-2701-002F TO MSL "2a" IN NOTE 7, ADDED P/N'S 595-2101-002F, 595-2301-002F, 595-2401-002F, AND 595-2501-002F TO MSL "3" IN NOTE 7, REMOVED REFLOW SOLDERING SPECS FROM ABSOLUTE MAXIMUM RATINGS. | KLJ | N.O. | MES | 4-15-08 |
| C   | —      | REVISED HI. INT. GREEN SPECS                                                                                                                                                                                                                              | AJF | KLJ  | NO  | 3-16-10 |
| D   | —      | REMOVED OBSOLETE P/Ns 595-2301-002F, 595-2401-013F, 595-2301-007F, 595-2301-013F, 595-2401-002F, 595-2401-007F, WITH THERE LED SPECS AND NOTES                                                                                                            | VP  | JTD  | NO  | 1-7-16  |
| E   | —      | REMOVED OBSOLETE P/Ns 595-2201-002F, 595-2201-013F, 595-2201-007F, 595-2501-013F, 595-2501-002F, 595-2501-007F, WITH THERE LED SPECS AND NOTES                                                                                                            | VP  | JTD  | NO  | 3-9-16  |



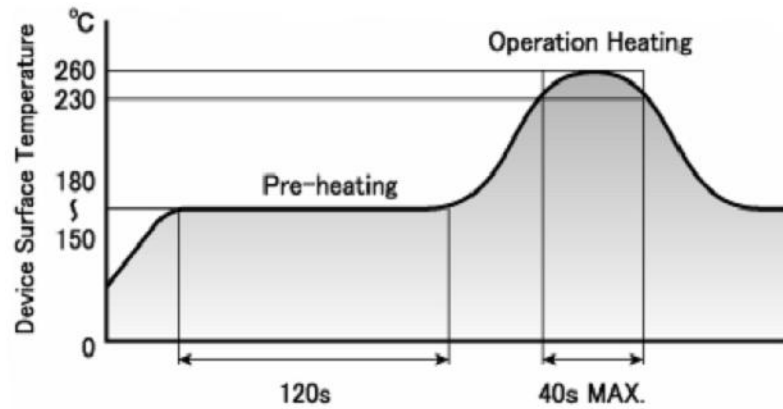
COMPONENT SIDE  
RECOMMENDED PC BOARD LAND PATTERN  
(DIM'S ±.004)

#### NOTES:

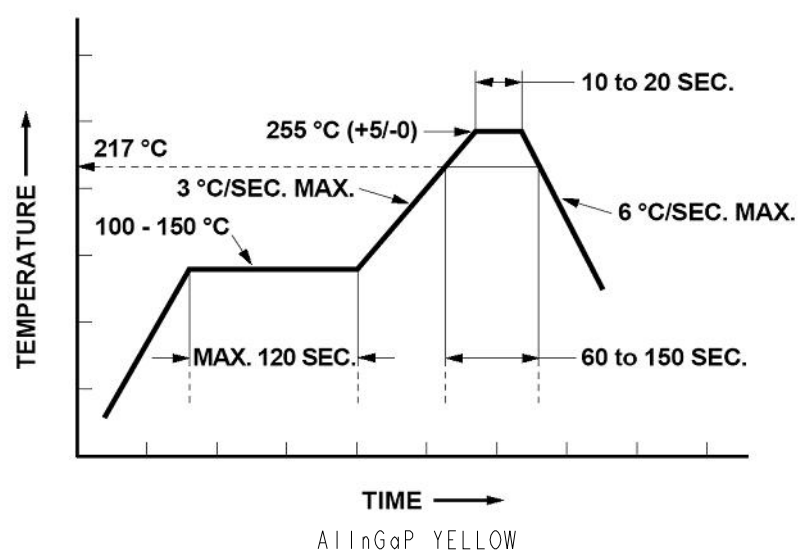
- 1- MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.
- 2- PAD NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- 3- STORAGE CONDITIONS FOR TAPED PRODUCT: RE-TAPING MAY BE NECESSARY FOR PRODUCTS STORED MORE THAN TWELVE MONTHS.
- 4- ORDER QUANTITY IS LED ASSEMBLIES, NOT REELS
- 5- ...-002 SUFFIX MEANS PARTS ARE PACKED ON A 20 pc SAMPLE STRIP  
...-007 SUFFIX MEANS PARTS ARE PACKED ON A 7 INCH REEL, 600 pcs/REEL  
...-013 SUFFIX MEANS PARTS ARE PACKED ON A 13 INCH REEL, 2300 pcs/REEL
- 6- DIALIGHT PART NUMBERS = 595-2x01-002F, 595-2x01-007F, 595-2x01-013F
- 7- PLACE MOISTURE SENSITIVITY LEVEL "3" LABEL ON 595-2701-002F, 595-2701-007F, 595-2701-013F. 595-2101-002F, 595-2101-007F, 595-2101-013F VACUUM SEAL BAG.
- 8- PACKAGE ONE HUMIDITY INDICATOR CARD (P/N 9100-999-0662-99) PER BAG.
- 9- PER LENS INSPECTION PROCEDURE 01-225 THIS AREA CAN HAVE PORTIONS MISSING OF UP TO 50%. NON-CRITICAL AREA BELOW LENS.



#### RoHS COMPLIANT REFLOW PROFILES



RED / GREEN / YELLOW/ ORANGE/ HI. INT. GREEN

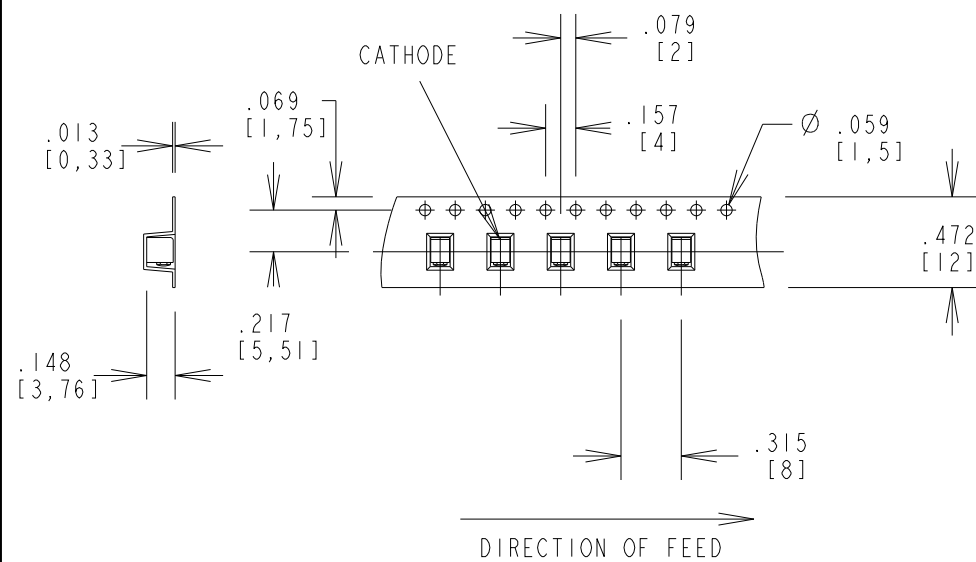


#### RoHS Compliant 595-2X01-0XXF Surface Mount CBI

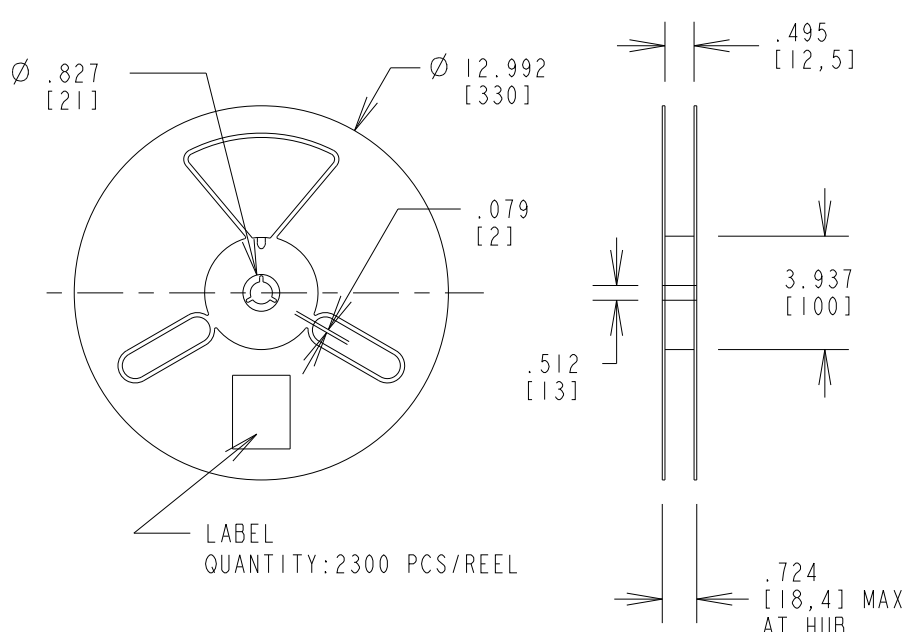
Part Numbers with the "F" suffix ending are RoHS Compliant. Example: 595-2101-002F. Packaging is marked with "RoHS Compliant" label or equivalent markings. Parts can be wave soldered, dip soldered, or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.

|                                                                                                                                                                                                                               |                                              |                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------|
| 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: DRAWING SCALE<br>ALL DIM'S IN: INCHES (MM)                                                                                                                                                                             | DRAWING NUMBER<br>C-17345                    | REV<br>E                                     |
| TOLERANCES: UNLESS OTHERWISE SPECIFIED<br>FRACTIONS: ±1/64<br>DECIMALS (.XX): ±.01<br>DECIMALS (.XXX): ±.005<br>DECIMALS (.XXXX): ±.0005<br>ANGLES: ±1°                                                                       | TITLE<br>SURFACE MOUNT CBI<br>RoHS COMPLIANT | MATERIAL                                     |
| FINISH:                                                                                                                                                                                                                       | Dialight                                     | 1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |
| FSCM 83330                                                                                                                                                                                                                    | SHEET 1 OF 1                                 | FAMILY TABLE:                                |

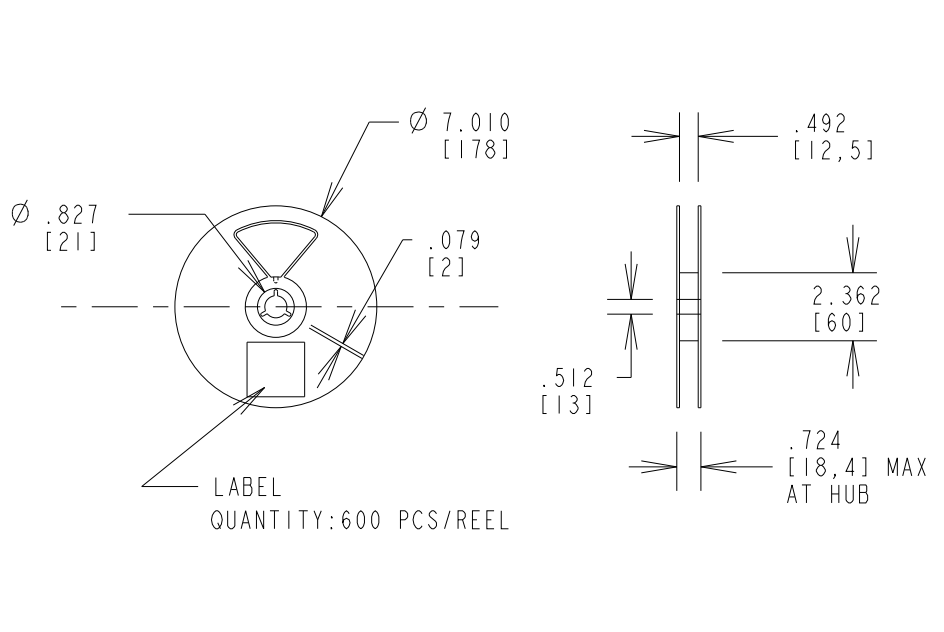
#### TAPING SPECIFICATION



TOLERANCE: .004 UNLESS OTHERWISE SPECIFIED  
MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY



#### 13 INCH DIA. REEL SPECIFICATIONS



#### 7 INCH DIA. REEL SPECIFICATIONS

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