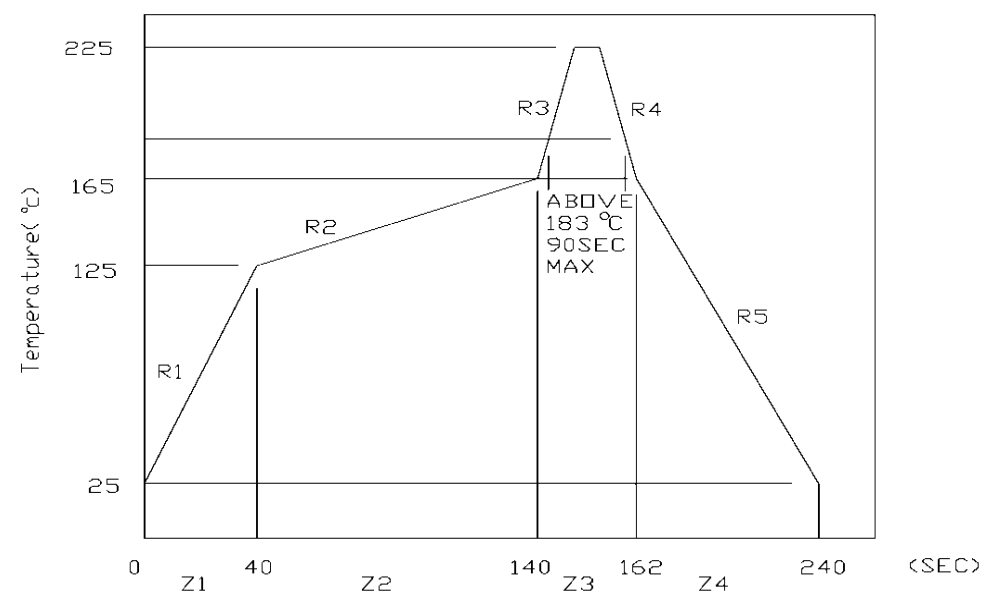
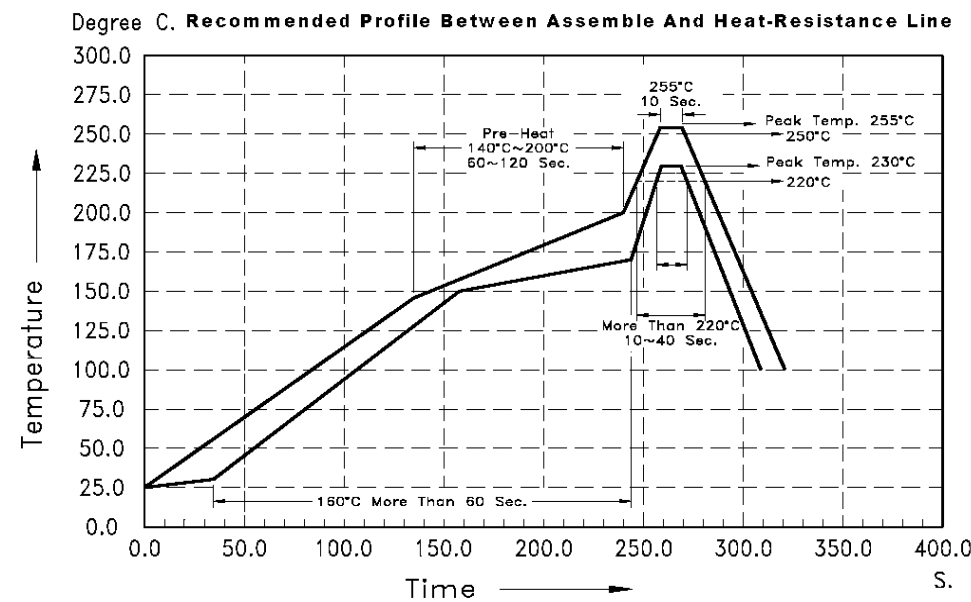
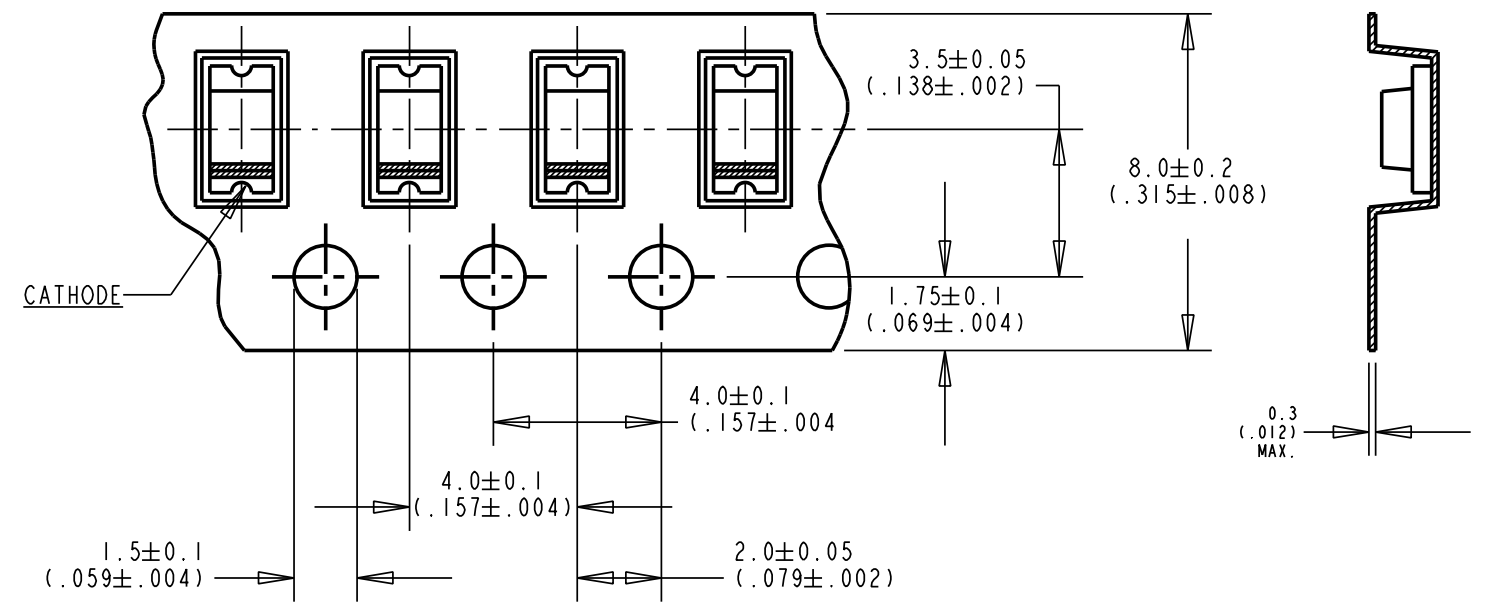
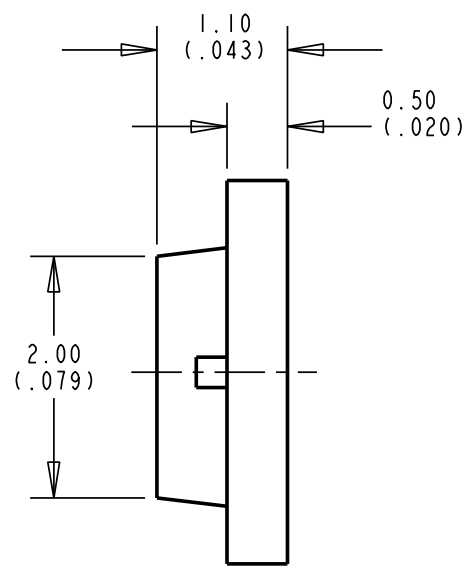
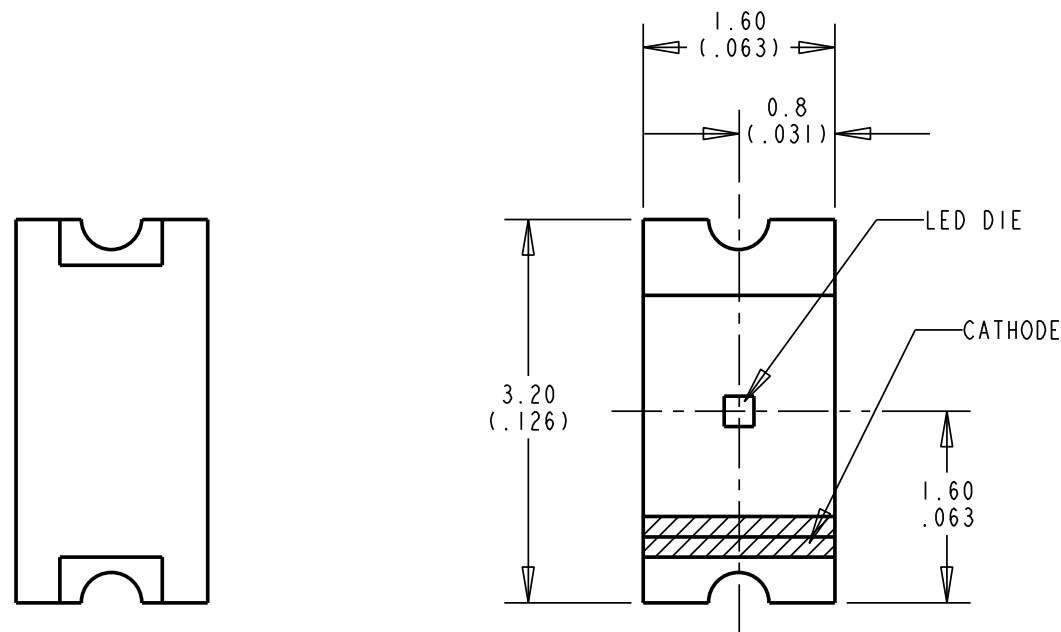




REFLOW PROFILE FOR  
NORMAL PARTS



REFLOW PROFILE FOR  
RoHS COMPLIANT PARTS



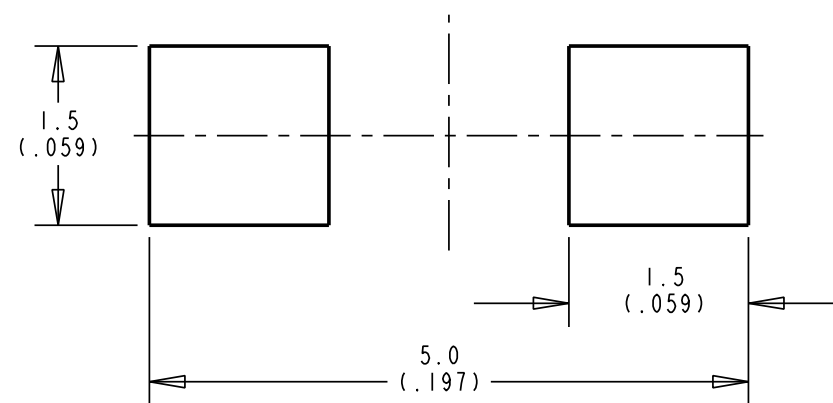
PACKAGE DIMENSIONS OF TAPE AND REEL

ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT

|                                                            | GREEN            | UNITS   |
|------------------------------------------------------------|------------------|---------|
| POWER DISSIPATION                                          | 100              | mW      |
| DERATE LINEARLY FROM 50° C                                 | 0.6              | mA / °C |
| CONTINUOUS FORWARD CURRENT                                 | 30               | mA      |
| PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH) | 120              | mA      |
| REVERSE VOLTAGE                                            | 5                | V       |
| OPERATING TEMPERATURE                                      | -55 TO +85       | °C      |
| STORAGE TEMPERATURE                                        | -55 TO +85       | °C      |
| WAVE SOLDERING CONDITION                                   | 260° C FOR 5 SEC |         |
| INFRARED SOLDERING CONDITION                               | 260° C FOR 5 SEC |         |
| VAPOR PHASE SOLDERING CONDITION                            | 215° C FOR 3 MIN |         |

OPERATING CHARACTERISTICS AT 25° C AMBIENT

| LED CHARACTERISTICS                   | MIN. | TYP. | MAX. | UNITS   | TEST CONDITIONS                 |
|---------------------------------------|------|------|------|---------|---------------------------------|
| LUMINOUS INTENSITY (I <sub>v</sub> )  | 4.0  | 8.0  | 30.0 | mc d    | I <sub>f</sub> = 10 mA          |
| VIEWING ANGLE (2 θ 1/2)               |      | 130  |      | DEGREES |                                 |
| PEAK WAVELENGTH (λ <sub>p</sub> )     |      | 565  |      | nm      | MEASUREMENT @ PEAK              |
| DOMINANT WAVELENGTH (λ <sub>d</sub> ) |      | 569  |      | nm      |                                 |
| SPECTRAL LINE HALF-WIDTH (Δλ)         |      | 30   |      | nm      |                                 |
| FORWARD VOLTAGE (V <sub>f</sub> )     |      | 2.1  | 2.6  | V       | I <sub>f</sub> = 20 mA          |
| REVERSE CURRENT (I <sub>R</sub> )     |      |      | 100  | μA      | V <sub>R</sub> = 5V             |
| CAPACITANCE (C)                       |      | 35   |      | pF      | V <sub>R</sub> = 0 V, f = 1 MHz |



SUGGEST SOLDERING PAD DIMENSIONS

| REV | ECN NO | REVISIONS                                                                                                                                 | DRN | CKD | APP  | DATE   |
|-----|--------|-------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|------|--------|
| A   | —      | NEW RELEASE                                                                                                                               | TC  | DC  | N.O. | 4-1-99 |
| B   | —      | ADDED NOTE 9.                                                                                                                             | TC  | DC  | N.O. | 6-9-99 |
| C   | —      | ADDED RoHS COMPLIANT "F" SUFFIX P/Ns, RoHS AND NORMAL REFLOW PROFILE & RoHS NOTE; UPDATED FORMAT; REVISED LEAD FINISH AND PACKAGING NOTES | TWC |     |      |        |

NOTES:

1. EPOXY COLOR: WATER CLEAR.
2. DIE: GaP.
3. LEADS: GOLD (Au) PLATED ON COPPER ALLOY (Cu) ON FR-4 SUBSTRATE
4. SOLDER ADHERANCE: BOTH LEADS PER MIL-STD-202E, METHOD 208C.
5. PART TAPED AND REELED PER EIA-RS-481-1.
6. PART SUPPLIED 3000 DEVICES PER 7" DIAMETER REEL, ONE REEL PER SEALED ALUMINUM BAG WITH DESICCANT.
7. LABELING FOR REEL AND OUTSIDE OF ALUMINUM FOIL BAG: DIALIGHT P/N, QUANTITY PER REEL, DATE CODE, INTENSITY BIN CODE, LOT NUMBER AND COUNTRY OF ORIGIN.
8. DIALIGHT P/N: 597-3302-607, -602 AND 597-3302-607F, -602F
9. TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.
10. PART NUMBER WITH "F" SUFFIX ENDING IS RoHS COMPLIANT. EXAMPLE: 597-3302-607F. THE REEL AND BAG ARE MARKED WITH "RoHS COMPLIANT" LABEL OR EQUIVALENT MARKINGS.

|                                                                                                                                                                                                                               |                                                          |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------|
| 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-16509                                | REV<br>C |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED<br>FRACTIONS: ±1/64<br>DECIMALS (.XX): ±.01<br>DECIMALS (.XXX): ±.005<br>DECIMALS (.XXXX): ±.0005<br>ANGLES: ±1°                                                                    | TITLE<br>GREEN SMT LED                                   |          |
| FINISH:                                                                                                                                                                                                                       | MATERIAL                                                 |          |
| FSCM 83330                                                                                                                                                                                                                    | Dialight<br>1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |          |
| SHEET 1 OF 1                                                                                                                                                                                                                  | FAMILY TABLE:                                            |          |