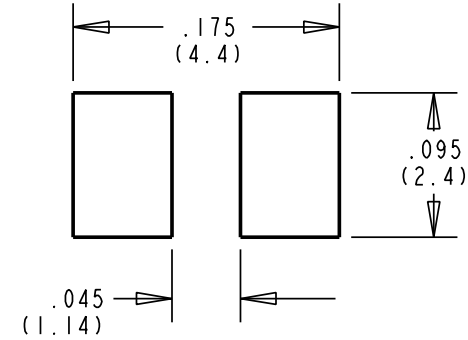
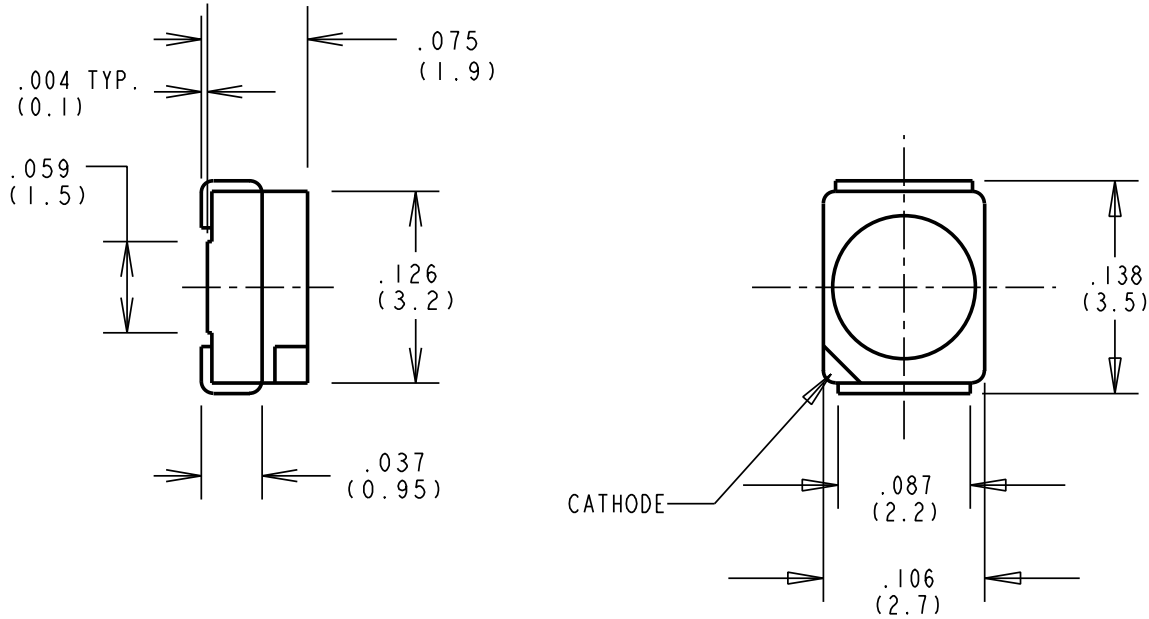
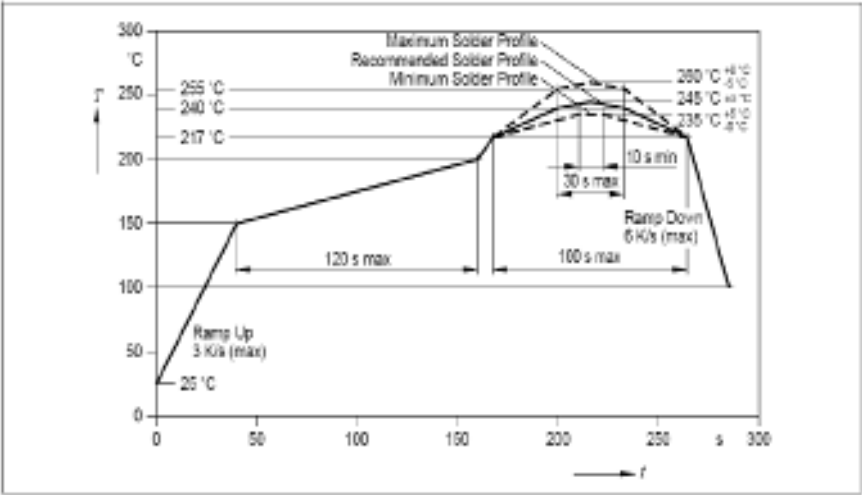


| REV | ECN NO | REVISIONS                                                                                                                                           | DRN | CKD | APP | DATE   |
|-----|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|--------|
| A   | _____  | NEW RELEASE                                                                                                                                         | DC  | YC  | AV  | 1-4-00 |
| B   | _____  | ADDED REFLOW PROFILE FOR ROHS COMPLIANT PARTS AND Sn/Pb SOLDERED PARTS; ADDED ESD NOTE & LOGO; ADDED NOTE 10; UPDATED PLATING NOTES; UPDATED FORMAT | TWC |     |     |        |



RECOMMENDED SOLDER PAD LAYOUT



REFLOW PROFILE FOR ROHS COMPLIANT PARTS

OPERATING CHARACTERISTICS AT 25° C AMBIENT

| LED CHARACTERISTICS     | MIN. | TYP. | MAX. | UNITS   | TEST CONDITIONS        |
|-------------------------|------|------|------|---------|------------------------|
| LUMINOUS INTENSITY      | 6.3  |      | 16.0 | mcd     | I <sub>F</sub> = 10 mA |
| FORWARD VOLTAGE         |      | 3.5  | 4.2  | V       | I <sub>F</sub> = 10 mA |
| REVERSE CURRENT         |      | 0.01 | 10   | μA      | V <sub>R</sub> = 5 V   |
| PEAK WAVELENGTH         |      | 428  |      | nm      |                        |
| 2 X 1/2-INTENSITY ANGLE |      | 120  |      | DEGREES |                        |

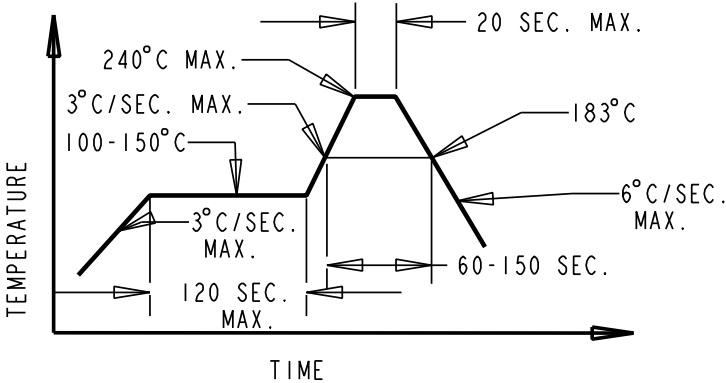
ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT

|                                                                                             |                   |
|---------------------------------------------------------------------------------------------|-------------------|
| POWER DISSIPATION                                                                           | 100 mW            |
| CONTINUOUS FORWARD CURRENT                                                                  | 20 mA             |
| DERATE LINEARLY FROM 55° C                                                                  | 0.44 mA/°C        |
| PEAK REVERSE VOLTAGE                                                                        | 5 V               |
| SOLDERING PROFILE: IR - 235°C PEAK 15 SEC., 185°C - 90 SEC. MAX. FOR 597-3601-202, AND -207 |                   |
| OPERATING AND STORAGE TEMPERATURE                                                           | -40 °C TO +100 °C |

- NOTES:
1. EPOXY COLOR: WATER CLEAR.
  2. DIE: InGaN.
  - 3a. LEADS: TIN PLATING (Sn) 8.0±2.0 MICROMETERS OVER (Ni) NICKEL, 0.5-1.0 MICROMETERS OVER COPPER ALLOY
  - 3b. LEADS: 80/20 Sn/Pb SOLDER PLATED FOR DIALIGHT P/Ns 597-3601-202 AND -207.
  4. SOLDER ADHERANCE: BOTH LEADS PER MIL-STD-202E, METHOD 208C.
  5. SUFFIX -202 FOR 20-PCS ON A SAMPLE TAPE STRIP.
  6. SUFFIX -207 FOR 180 mm DIA. REEL, 8 mm WIDE TAPE, PACKAGED 2000-PCS PER REEL WITH A PITCH OF 4 mm.
  7. DEVICES POSITIONED ON REEL WITH CATHODE SIDE TOWARDS SPROCKET.
  8. DIALIGHT P/N: 597-3601-202, 597-3601-207.
  9. TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.
  10. PRODUCT P/N WITH "F" SUFFIX ENDING IS ROHS COMPLIANT. DIALIGHT P/Ns 597-3601-202F & 597-3601-207F LEDS HAVE LEADS PLATED WITH PURE TIN (Sn). SEE NOTE 3a
  11. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.



**ATTENTION:**  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES



RECOMMENDED REFLOW SOLDERING PROFILE FOR 80/20 Sn/Pb PARTS

|                                                                                                                                                                                                                               |                                                          |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------|
| 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-16643                                | REV<br>B      |
| 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>BLUE SMT LED                                    |               |
| FINISH:                                                                                                                                                                                                                       | MATERIAL                                                 |               |
| FSCM 83330                                                                                                                                                                                                                    | Dialight<br>1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |               |
|                                                                                                                                                                                                                               | SHEET 1 OF 1                                             | FAMILY TABLE: |