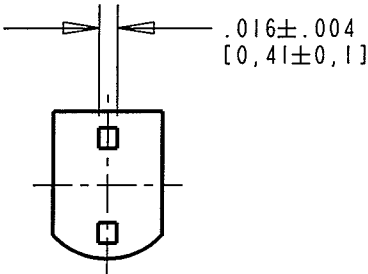
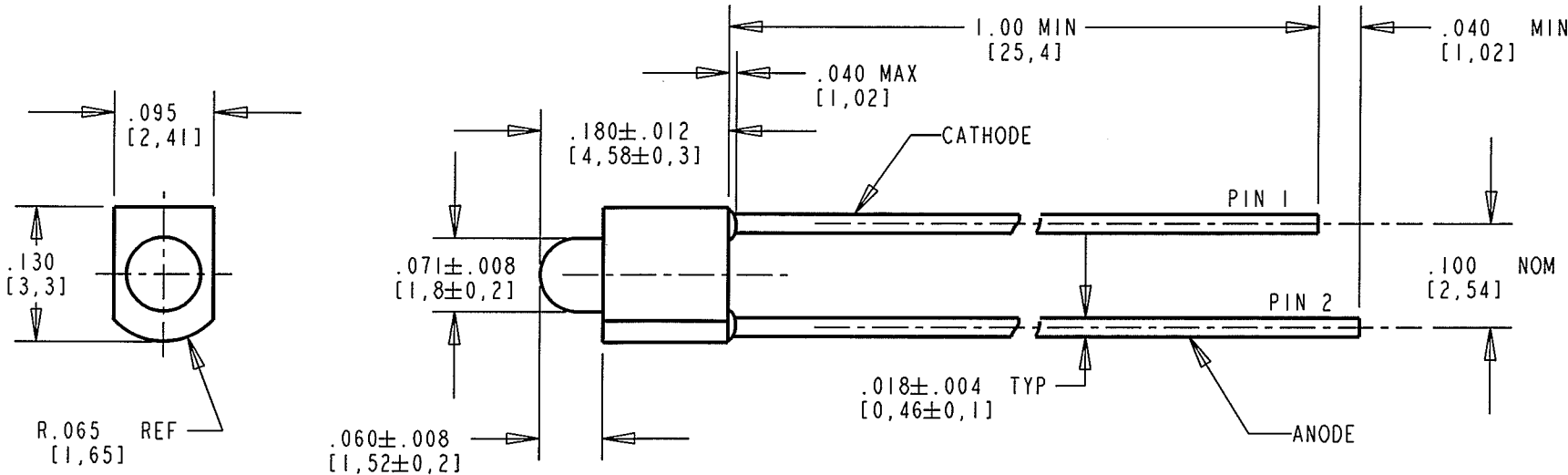


| DIALIGHT<br>PART NUMBER | COLOR            |
|-------------------------|------------------|
| 521-8068F               | RED-ORANGE/GREEN |
| 521-8069F               | YELLOW/GREEN     |

RoHS COMPLIANT 521-806XF BI-COLOR LED

Part Numbers with the "F" suffix ending are RoHS Compliant.  
For Example: 521-8069F  
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.

| REV | ECN NO | REVISIONS   | DRN | CKD | APP  | DATE    |
|-----|--------|-------------|-----|-----|------|---------|
| A   |        | NEW RELEASE | KLJ | 12  | M.B. | 2-28-08 |



| PART NUMBER | COLOR      | PEAK WAVELENGTH (nm) | DOMINANT WAVELENGTH (nm) | VIEWING ANGLE (°) | LUMINOUS INTENSITY (mcd) @ I <sub>F</sub> =20 mA, 25°C |     | FORWARD VOLTAGE (V) @ I <sub>F</sub> =20 mA, 25°C |     |
|-------------|------------|----------------------|--------------------------|-------------------|--------------------------------------------------------|-----|---------------------------------------------------|-----|
|             |            | TYP                  | TYP                      | TYP               | MIN                                                    | TYP | TYP                                               | MAX |
| 521-8068F   | RED ORANGE | 632                  | 624                      | 40                | 110                                                    | 300 | 2.0                                               | 2.4 |
|             | GREEN      | 575                  | 572                      |                   | 23                                                     | 45  | 2.1                                               | 2.4 |
| 521-8069F   | YELLOW     | 598                  | 595                      |                   | 50                                                     | 120 | 2.0                                               | 2.4 |
|             | GREEN      | 575                  | 572                      |                   | 23                                                     | 45  | 2.1                                               | 2.4 |

- NOTES:
1. LENS COLOR: WHITE DIFFUSED
  2. DIE: AlInGaP
  3. LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
  4. PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
  5. DIALIGHT PART NUMBERS: 521-8068F, 521-8069F
  6. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

| ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT                           | 521-8068F   |       | 521-8069F |       | UNITS |
|--------------------------------------------------------------------|-------------|-------|-----------|-------|-------|
|                                                                    | RED ORANGE  | GREEN | YELLOW    | GREEN |       |
| POWER DISSIPATION                                                  | 120         | 75    | 120       | 75    | mW    |
| CONTINUOUS FORWARD CURRENT                                         | 50          | 30    | 50        | 30    | mA    |
| PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)         | 130         | 60    | 90        | 60    | mA    |
| DERATING LINEAR FROM 40°C FOR RED ORANGE & YELLOW / 50°C FOR GREEN | 0.75        | 0.40  | 0.75      | 0.40  | mA/°C |
| REVERSE VOLTAGE                                                    | 5           |       |           |       | V     |
| SOLDERING TEMPERATURE (.079" [2mm] FROM BODY FOR 5 SECONDS)        | 260         |       |           |       | °C    |
| OPERATING TEMPERATURE                                              | -40 TO +100 |       |           |       | °C    |
| STORAGE TEMPERATURE                                                | -55 TO +100 |       |           |       | °C    |



ATTENTION:  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

|                                                                                                                                                                                                                               |                                                          |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------|
| 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-17594                                | REV<br>A |
| 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>1.8 mm BI-COLOR LED<br>RoHS COMPLIANT           |          |
| FINISH:                                                                                                                                                                                                                       | MATERIAL                                                 |          |
| FSCM 83330                                                                                                                                                                                                                    | Dialight<br>1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |          |
| SHEET 1 OF 1 FAMILY TABLE:                                                                                                                                                                                                    |                                                          |          |