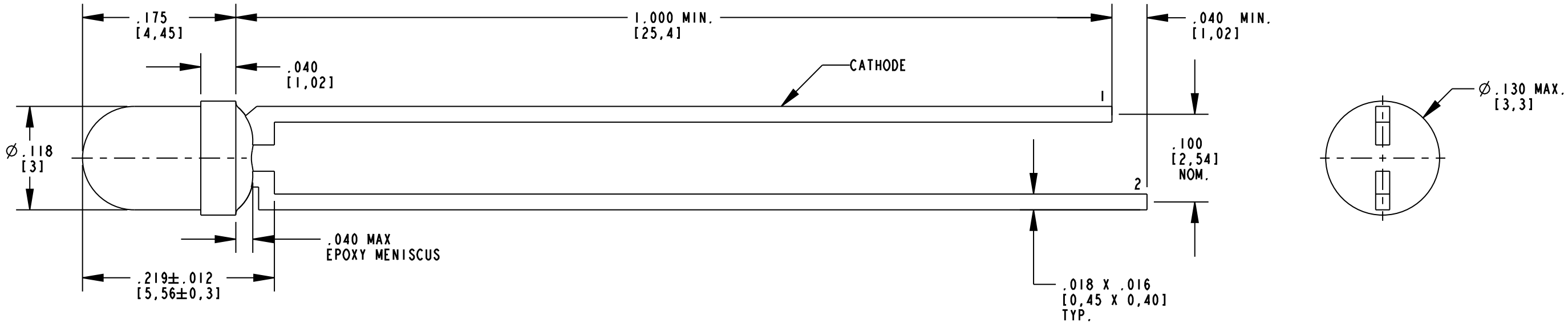


| DIALIGHT P/N | LED COLOR | LENS COLOR      |
|--------------|-----------|-----------------|
| 521-9215F    | RED       | TINTED DIFFUSED |
| 521-9322F    | YELLOW    | TINTED DIFFUSED |
| 521-9323F    | GREEN     | TINTED DIFFUSED |

RoHS COMPLIANT 521-9XXXF  
Part Numbers with the "F" suffix ending are RoHS Compliant.  
Example: 521-9215F  
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 | AJF | KLJ | NO  | 6-16-10 |



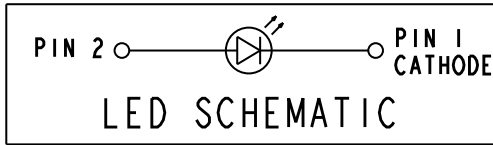
| OPERATING CHARACTERISTICS AT 25°C AMBIENT |           |      |      |      |        |                      |
|-------------------------------------------|-----------|------|------|------|--------|----------------------|
| LED CHARACTERISTICS                       | LED COLOR | MIN. | TYP. | MAX. | UNITS  | TEST CONDITIONS      |
| LUMINOUS INTENSITY                        | RED       | 8.7  | 29.0 |      | mcd    | V <sub>F</sub> = 5 V |
|                                           | GREEN     | 5.6  | 19.0 |      |        |                      |
|                                           | YELLOW    | 3.7  | 12.6 |      |        |                      |
| PEAK WAVELENGTH                           | RED       |      | 635  |      | nm     |                      |
|                                           | GREEN     |      | 565  |      |        |                      |
|                                           | YELLOW    |      | 585  |      |        |                      |
| DOMINANT WAVELENGTH                       | RED       | 615  | 625  | 632  | nm     |                      |
|                                           | GREEN     | 564  | 565  | 573  |        |                      |
|                                           | YELLOW    | 584  | 590  | 595  |        |                      |
| FORWARD CURRENT                           | RED       |      | 10.0 | 20.0 | V      | V <sub>F</sub> = 5 V |
|                                           | GREEN     |      | 10.0 | 20.0 |        |                      |
|                                           | YELLOW    |      | 10.0 | 20.0 |        |                      |
| REVERSE CURRENT                           | ALL       |      |      | 100  | μA     | V <sub>R</sub> = 5 V |
| VIEWING ANGLE                             | ALL       |      | 60   |      | DEGREE |                      |

- NOTES:
- PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
  - LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
  - DIALIGHT PART NUMBERS: 521-9215F, 521-9322F & 521-9323F.
  - 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                        | LED COLOR   |       |        | UNITS |
|-----------------------------------------------------------------|-------------|-------|--------|-------|
|                                                                 | RED         | GREEN | YELLOW |       |
| CONTINUOUS FORWARD VOLTAGE                                      | 7.5         |       |        | V     |
| LINEAR DERATING FROM 50°C                                       | 0.086       |       |        | V/°C  |
| REVERSE VOLTAGE                                                 | 5           |       |        | V     |
| LEAD SOLDERING TEMPERATURE (.063" [1.6mm] FROM BODY) FOR 5 SEC. | 260         |       |        | °C    |
| OPERATING TEMPERATURE                                           | -40 TO +85  |       |        | °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: 8.000                                                                                                                                                                                                                  | DRAWING NUMBER<br><br>C - 17849                                                       | REV<br><br>A                                 |
| ALL DIM'S IN: INCHES (MM)                                                                                                                                                                                                     |                                                                                       |                                              |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                     | TITLE      Ø 3mm LED INTEGRAL<br>RESISTOR 5V                                          |                                              |
| FRACTIONS: ±1/64<br>DECIMALS (.XX): ±.02<br>DECIMALS (.XXX): ±.010                                                                                                                                                            |                                                                                       |                                              |
| ANGLES: ±1°                                                                                                                                                                                                                   | MATERIAL<br><br>-                                                                     |                                              |
| FINISH:<br><br>-                                                                                                                                                                                                              |  | 1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |
|                                                                                                                                                                                                                               |                                                                                       |                                              |
| FSCM      83330                                                                                                                                                                                                               | SHEET      I      OF      I      FAMILY TABLE:                                        |                                              |