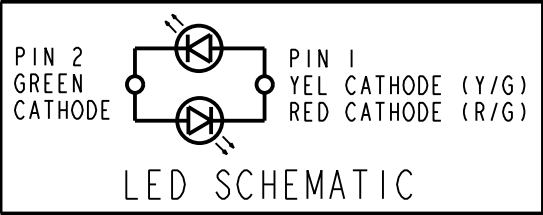
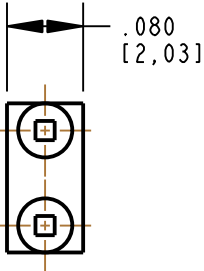
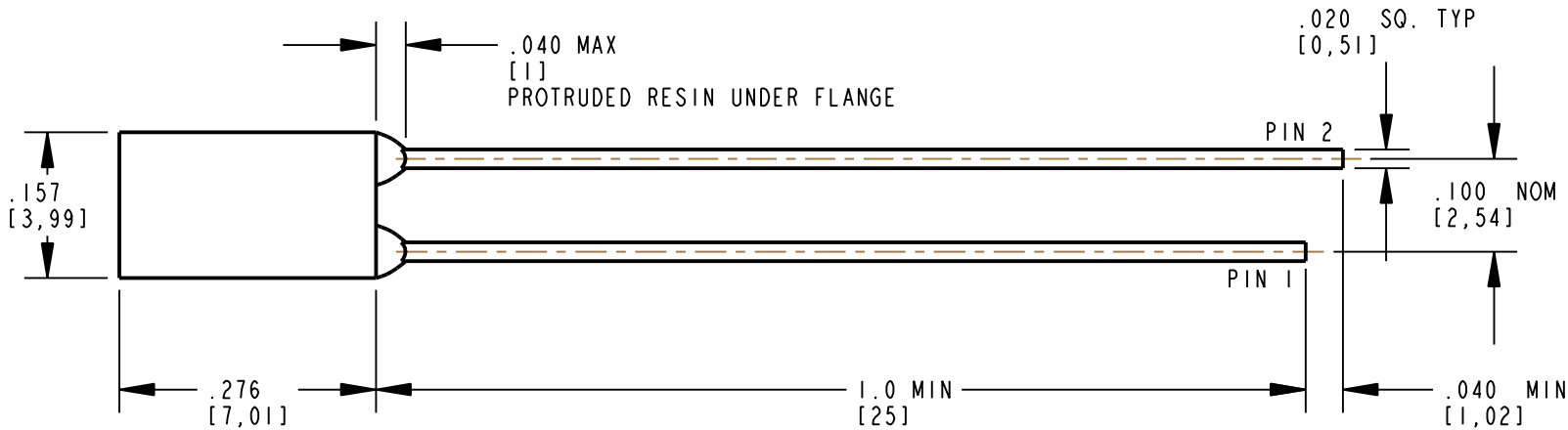


| DIALIGHT<br>PART NUMBER | COLOR        |
|-------------------------|--------------|
| 521-9640F               | YELLOW/GREEN |
| 521-9743F               | RED/GREEN    |

| REV | ECN NO | REVISIONS            | DRN | CKD | APP  | DATE    |
|-----|--------|----------------------|-----|-----|------|---------|
| A   | —      | NEW RELEASE          | KLJ | MES | N.O. | 2-7-08  |
| B   | —      | ADDED P/N 521-9743F. | KLJ | ALV | N.O. | 6-16-09 |



| ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT                  | Y/G BI-COLOR |       | R/G BI-COLOR |       | UNITS |
|-----------------------------------------------------------|--------------|-------|--------------|-------|-------|
|                                                           | YELLOW       | GREEN | RED          | GREEN |       |
| POWER DISSIPATION                                         | 60           | 100   | 100          | 100   | mW    |
| CONTINUOUS FORWARD CURRENT                                | 20           | 30    | 30           | 30    | mA    |
| PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1ms PULSE WIDTH) | 80           | 120   | 120          | 120   | mA    |
| DERATE LINEARLY FROM 50°C                                 | 0.25         | 0.4   | 0.4          | 0.4   | mA/°C |
| REVERSE VOLTAGE (I <sub>R</sub> =100 μA)                  | 5            |       |              |       | V     |
| STORAGE TEMPERATURE                                       | -55 TO +100  |       |              |       | °C    |
| OPERATING TEMPERATURE                                     | -55 TO +100  |       |              |       | °C    |
| SOLDERING TEMPERATURE, 1/16" FROM BODY FOR 5 SEC          | 260          |       |              |       | °C    |

| OPERATING CHARACTERISTICS AT 25°C AMBIENT |       |              |        |       |     |     |                        |
|-------------------------------------------|-------|--------------|--------|-------|-----|-----|------------------------|
| CHARACTERISTICS                           | UNITS | COLOR        |        | VALUE |     |     | TEST CONDITIONS        |
|                                           |       |              |        | MIN   | TYP | MAX |                        |
| LUMINOUS INTENSITY                        | mcd   | Y/G BI-COLOR | YELLOW | 1.1   | 3.7 | —   | I <sub>F</sub> = 20 mA |
|                                           |       |              | GREEN  | 1.7   | 5.6 | —   |                        |
|                                           |       | R/G BI-COLOR | RED    | 1.7   | 5.6 | —   |                        |
|                                           |       |              | GREEN  | 1.7   | 5.6 | —   |                        |
| FORWARD VOLTAGE                           | V     | Y/G BI-COLOR | YELLOW | —     | 2.1 | 2.6 | I <sub>F</sub> = 20 mA |
|                                           |       |              | GREEN  | —     | 2.1 | 2.6 |                        |
|                                           |       | R/G BI-COLOR | RED    | —     | 2.0 | 2.8 |                        |
|                                           |       |              | GREEN  | —     | 2.1 | 2.8 |                        |
| REVERSE CURRENT                           | μA    | ALL          |        | —     | —   | 100 | V <sub>R</sub> = 5 V   |
| DOMINANT WAVELENGTH                       | nm    | Y/G BI-COLOR | YELLOW | 583   | 586 | 589 |                        |
|                                           |       |              | GREEN  | —     | 569 | —   |                        |
|                                           |       | R/G BI-COLOR | RED    | —     | 621 | —   |                        |
|                                           |       |              | GREEN  | —     | 569 | —   |                        |
| PEAK WAVELENGTH                           | nm    | Y/G BI-COLOR | YELLOW | —     | 585 | —   |                        |
|                                           |       |              | GREEN  | —     | 565 | —   |                        |
|                                           |       | R/G BI-COLOR | RED    | —     | 630 | —   |                        |
|                                           |       |              | GREEN  | —     | 565 | —   |                        |
| VIEWING ANGLE (2 Θ <sub>1/2</sub> )       | DEG   | ALL          |        | —     | 140 | —   |                        |

NOTES:

- LED LENS COLOR: WHITE DIFFUSED
- LEAD SPACING IS MEASURED WHERE LEADS EMERGE FROM PACKAGE.
- PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- DIALIGHT PART NUMBERS: 521-9640F, 521-9743F
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

RoHS COMPLIANT 521-9640F & 521-9743F

Part Numbers with the "F" suffix ending are RoHS Compliant. 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.



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: 5.000                                                                                                                                                                                                                  | DRAWING NUMBER<br><br>C-17590                            | REV<br><br>B |
| ALL DIM'S IN: INCHES (MM)                                                                                                                                                                                                     |                                                          |              |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                     | TITLE<br><br>2mm x 4mm Y/G RECTANGULAR LED               |              |
| FRACTIONS: ±1/64<br>DECIMALS (.XX): ±.02<br>DECIMALS (.XXX): ±.010                                                                                                                                                            |                                                          |              |
| ANGLES: ±1°                                                                                                                                                                                                                   | MATERIAL<br><br>-                                        |              |
| FINISH:<br><br>-                                                                                                                                                                                                              |                                                          |              |
| FSCM<br><br>83330                                                                                                                                                                                                             | Dialight<br>1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |              |
| SHEET 1 OF 1 FAMILY TABLE:                                                                                                                                                                                                    |                                                          |              |