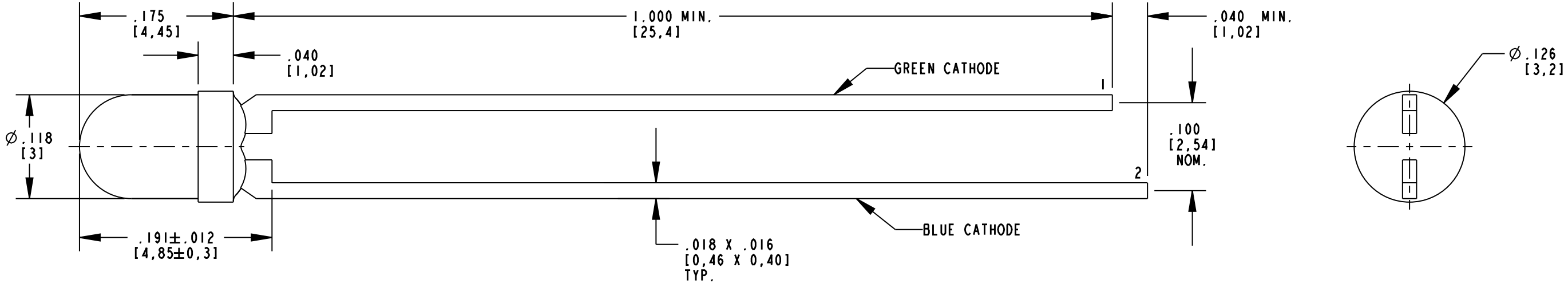


| REV | ECN NO | REVISIONS   | DRN | CKD | APP | DATE    |
|-----|--------|-------------|-----|-----|-----|---------|
| A   |        | NEW RELEASE | AJF | KLJ | NO  | 6-25-10 |

RoHS COMPLIANT 521-8012F

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.

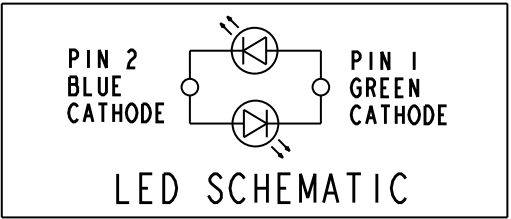


| OPERATING CHARACTERISTICS AT 25°C AMBIENT |       |      |      |      |        |                        |
|-------------------------------------------|-------|------|------|------|--------|------------------------|
| LED CHARACTERISTICS                       | COLOR | MIN. | TYP. | MAX. | UNITS  | TEST CONDITIONS        |
| LUMINOUS INTENSITY                        | GREEN | 6.5  | 14.0 |      | mcd    | I <sub>F</sub> = 20 mA |
|                                           | BLUE  | 3.8  | 8.5  |      |        |                        |
| PEAK WAVELENGTH                           | GREEN |      | 565  |      | nm     |                        |
|                                           | BLUE  |      | 428  |      |        |                        |
| DOMINANT WAVELENGTH                       | GREEN |      | 569  |      | nm     |                        |
|                                           | BLUE  |      | 465  |      |        |                        |
| FORWARD VOLTAGE                           | GREEN |      | 2.1  | 2.5  | V      | I <sub>F</sub> = 20 mA |
|                                           | BLUE  |      | 4.0  | 4.8  |        |                        |
| VIEWING ANGLE                             | ALL   |      | 60   |      | DEGREE |                        |

| ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT                        | COLOR       |      | UNITS |
|-----------------------------------------------------------------|-------------|------|-------|
|                                                                 | GREEN       | BLUE |       |
| POWER DISSIPATION                                               | 75          | 100  | mW    |
| PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1ms PULSE WIDTH)       | 90          | 50   | mA    |
| CONTINUOUS FORWARD CURRENT                                      | 30          | 20   | mA    |
| LINEAR DERATING FROM 50°C FOR GREEN / 30°C FOR BLUE             | 0.4         | 0.3  | mA/°C |
| LEAD SOLDERING TEMPERATURE (.063" [1.6mm] FROM BODY) FOR 5 SEC. | 260         |      | °C    |
| OPERATING TEMPERATURE                                           | -20 TO +80  |      | °C    |
| STORAGE TEMPERATURE                                             | -30 TO +100 |      | °C    |

NOTES:

1. EPOXY COLOR: WHITE DIFFUSED.
2. LED DIE: InGaN GREEN AND BLUE.
3. LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
4. PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
5. DIALIGHT PART NUMBER: 521-8012F.
6. 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

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                               | REV           |
| ALL DIM'S IN: INCHES (MM)                                          | C-17852                                      | A             |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED                          | TITLE<br>Ø3mm GREEN/BLUE BI-COLOR LED        |               |
| FRACTIONS: ±1/64<br>DECIMALS (.XX): ±.02<br>DECIMALS (.XXX): ±.010 | MATERIAL<br>-                                |               |
| ANGLES: ±1°                                                        | Dialight                                     |               |
| FINISH:<br>-                                                       | 1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |               |
| FSCM 83330                                                         | SHEET 1 OF 1                                 | FAMILY TABLE: |

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521-8012F