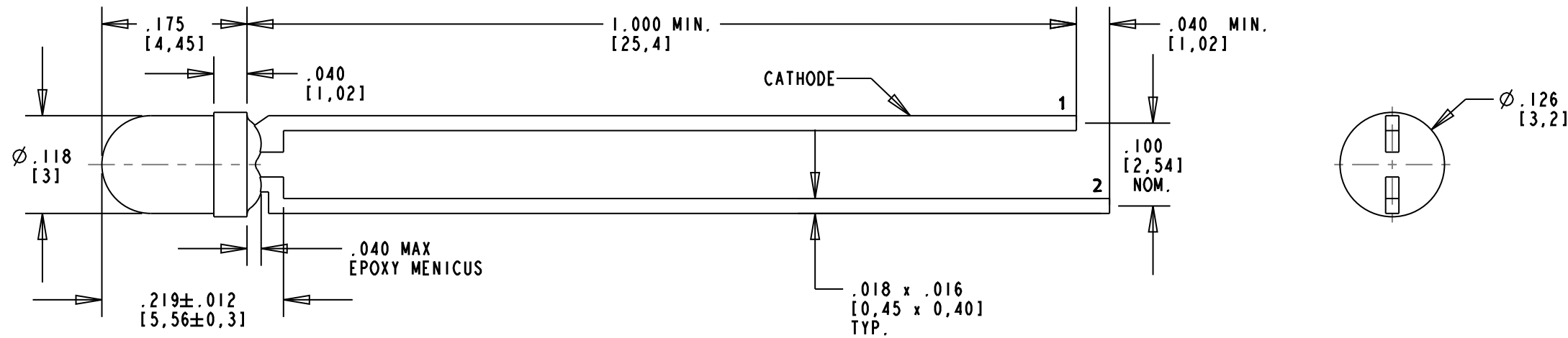


RoHS COMPLIANT 521-9918F
 Part Numbers with the "F" suffix ending are RoHS Compliant. Packaging is marked with "RoHS Compliant" label or equivalent markings. Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.

| REV. | ECN NO. | REVISIONS | DRN. | CKD. | APP. | DATE |
|------|---------|--|------|------|------|---------|
| A | — | NEW RELEASE | JAV | YIS | N.O. | 9-23-03 |
| B | — | LUMINOUS INTENSITY 110 MIN 310 MAX WAS 240 MIN 680 MAX; ADDED 521-9918F RoHS COMPLIANT P/N & RoHS COMPLIANT NOTE; ADDED ESD NOTE & LOGO | TWC | TC | N.O. | 7-12-05 |
| C | — | UPDATED LED SPECS | KLJ | NO | MES | 2-7-08 |
| D | — | UPDATED LED SPECS; ADDED LED SCHEMATIC; ADDED PIN NUMBERS; ADDED NOTE 4; REVISED NOTE 5; DELETED NOTE 6; ADDED RoHS NOTE; REVISED DIMENSIONS | AJF | KLJ | NO | 3-29-11 |

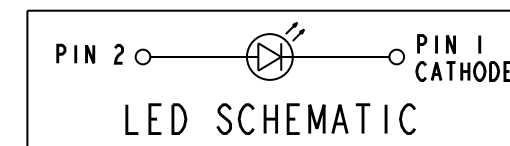


NOTES:

1. LENS COLOR: WATER CLEAR (NON-TINTED, NON-DIFFUSED).
2. DIE: InGaN BLUE
3. LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
4. PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
5. DIALIGHT PART NUMBER: 521-9918F.
6. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.

| OPERATING CHARACTERISTICS AT 25°C AMBIENT | | | | | |
|---|------|------|------|--------|------------------------|
| LED CHARACTERISTICS | MIN. | TYP. | MAX. | UNITS | TEST CONDITIONS |
| LUMINOUS INTENSITY | 310 | 520 | 880 | mc d | I _F = 20 mA |
| PEAK WAVELENGTH | | 468 | | nm | |
| DOMINANT WAVELENGTH | 465 | 470 | 475 | nm | |
| FORWARD VOLTAGE | | 3.3 | 3.8 | V | I _F = 20 mA |
| REVERSE CURRENT | | | 100 | μA | V _R = 5 V |
| VIEWING ANGLE | | 45 | | DEGREE | |

| ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT | VALUE | UNITS |
|---|-------------|-------|
| POWER DISSIPATION | 120 | mW |
| PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1ms PULSE WIDTH) | 100 | mA |
| CONTINUOUS FORWARD CURRENT | 30 | mA |
| LINEAR DERATING FROM 30°C | 0.50 | mA/°C |
| REVERSE VOLTAGE | 5 | V |
| LEAD SOLDERING TEMPERATURE (.078" [2mm] FROM BODY) FOR 5 SEC. | 260 | °C |
| OPERATING TEMPERATURE | -40 TO +85 | °C |
| STORAGE TEMPERATURE | -40 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: 6.000 | DRAWING NUMBER | REV |
| ALL DIM'S IN: INCHES (MM) | C-17092 | D |
| TOLERANCES: UNLESS OTHERWISE SPECIFIED | TITLE | |
| FRACTIONS: ±1/64 | Ø3mm BLUE LED, WATER CLEAR | |
| DECIMALS (.XX): ±.02 | MATERIAL | |
| DECIMALS (.XXX): ±.010 | Dialight | |
| ANGLES: ±1° | 1501 ROUTE 34 SOUTH | |
| FINISH: | FARMINGDALE, NJ 07727 | |
| FSCM 83330 | SHEET 1 OF 1 | FAMILY TABLE: |