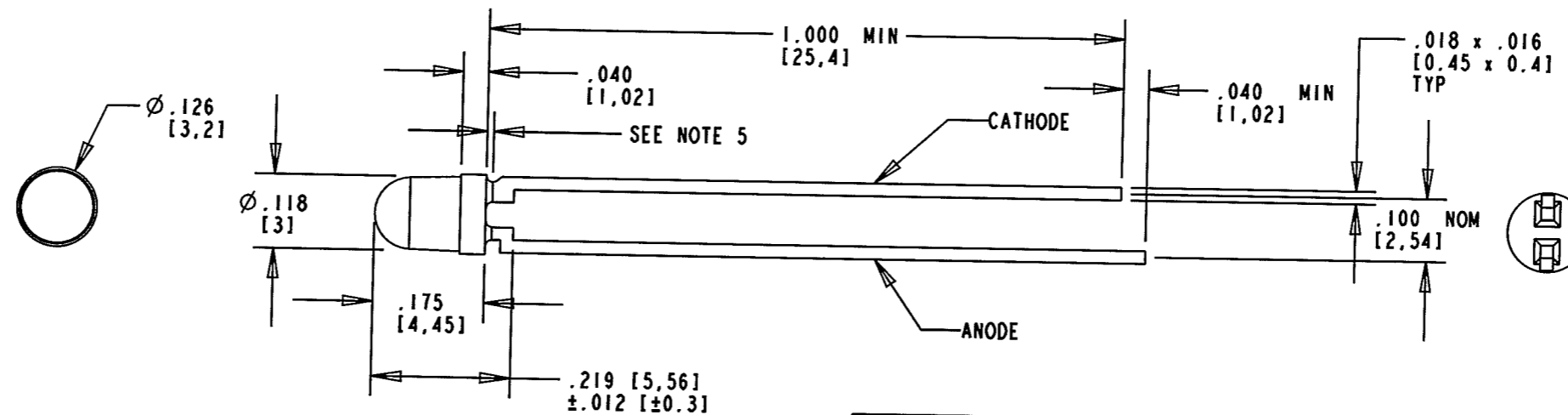


| REV | ECN NO | REVISIONS   | DRW | CKD | APP  | DATE    |
|-----|--------|-------------|-----|-----|------|---------|
| A   | —      | NEW RELEASE | SM  | KL  | M.B. | 9-16-08 |



| ABSOLUTE MAXIMUM RATING AT 25°C AMBIENT                    |             |       |
|--|-------------|-------|
|  | RED         | UNITS |
| POWER DISSIPATION  | 120         | mW    |
| DERATE LINEARLY FROM 70°C                                  | 0.6         | mA/°C |
| CONTINUOUS FORWARD CURRENT                                 | 50          | mA    |
| REVERSE VOLTAGE  | 5           | V     |
| PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH) | 160         | mA    |
| LEAD SOLDERING TEMPERATURE, 5 SEC., 1/16" FROM BODY        | 260         | °C    |
| OPERATING TEMPERATURE                                      | -40 TO +100 | °C    |
| STORAGE TEMPERATURE  | -55 TO +100 | °C    |



**ATTENTION:**  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

**NOTES:**

- LED FINISH TIN - NICKEL ON COPPER
- LENS COLOR: ALINGOP RED (TRANSPARENT)
- SOLDER ADHERANCE: BOTH LEADS PER MIL STD. 202E, METHODE 208C
- PARTS ARE TO BE PACKAGED IN BAG WITH LABEL IDENTIFYING THE FOLLOWING:  
[ BIN CODE, DATE CODE, QTY PER BAG AND DIALIGHT PART NUMBER ]
- PROTRUDED RESIN UNDER FLANGE IS .040 [1.0mm] MAX
- LEAD SPACING IS MEASURED WHERE THE LEADS EMERGE FROM THE PACKAGE
- DIALIGHT PART NUMBER: 521-9888F
- 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 521-9888F  
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 |     |     |     |               |                              |
|---|-----|-----|-----|---------------|------------------------------|
| CHARACTERISTICS                           | MIN | TYP | MAX | UNITS         | TEST CONDITIONS              |
| LUMINOUS INTENSITY                        | 100 | 300 |     | mcd           | $I_f = 20 \text{ mA}$        |
| FORWARD VOLTAGE                           |     | 2.0 | 2.4 | V             | $I_f = 20 \text{ mA}$        |
| REVERSE CURRENT                           |     |     | 100 | $\mu\text{A}$ | $V_R = 5 \text{ V}$          |
| PEAK WAVELENGTH                           |     | 632 |     | nm            |                              |
| DOMINANT WAVELENGTH                       |     | 624 |     | nm            |                              |
| VIEWING ANGLE                             |     | 45  |     | Degree        |                              |
| CAPACITANCE                               |     | 40  |     | pf            | $V_f = 0, f = 1 \text{ MHz}$ |

|   |  |          |
|---|--|----------|
| 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-17659                                | REV<br>A |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED<br>FRACTIONS: $\pm 1/64$<br>DECIMALS (.XX): $\pm .02$<br>DECIMALS (.XXX): $\pm .010$<br>DECIMALS (.XXXX): $\pm .0005$<br>ANGLES: $\pm 1^\circ$                                      | TITLE<br>3mm LED<br>RoHS COMPLIANT                       |          |
| FINISH:   | MATERIAL   |          |
| FSCM 83330  | Dialight<br>1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |          |
|   | SHEET 1 OF 1 FAMILY TABLE:                               |          |