

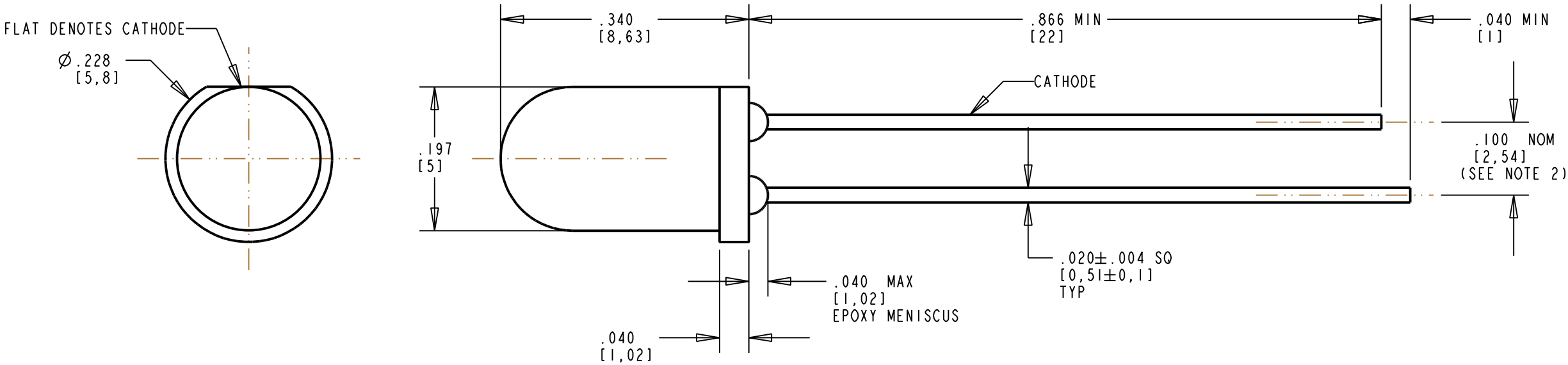
| OPERATING CHARACTERISTICS AT 25°C AMBIENT |      |      |      |       |                        |
|-------------------------------------------|------|------|------|-------|------------------------|
| LED CHARACTERISITICS                      | MIN  | TYP  | MAX  | UNITS | TEST CONDITION         |
| LUMINOUS INTENSITY                        | 2500 | 4200 | 7200 | mcd   | I <sub>F</sub> = 20 mA |
| PEAK WAVELENGTH                           |      | 518  |      | nm    |                        |
| DOMINANT WAVELENGTH                       | 520  | 527  | 535  | nm    |                        |
| VIEWING ANGLE (2 Θ1/2)                    |      | 30   |      | DEG   |                        |
| FORWARD VOLTAGE                           |      | 3.8  | 4.3  | V     | I <sub>F</sub> = 20 mA |

| ABSOLUTE MAXIMUM RATINGS 25°C AMBIENT                     |             |       |
|-----------------------------------------------------------|-------------|-------|
| PARAMETER                                                 | VALUE       | UNITS |
| DC FORWARD CURRENT                                        | 30          | mA    |
| PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1ms PULSE WIDTH) | 100         | mA    |
| POWER DISSIPATION                                         | 135         | mW    |
| DERATING LINEARLY FROM 30°C                               | 0.5         | mA/°C |
| REVERSE VOLTAGE (I <sub>R</sub> = 100μA)                  | 5           | V     |
| OPERATING TEMPERATURE RANGE                               | -40 to +85  | °C    |
| STORAGE TEMPERATURE RANGE                                 | -40 to +100 | °C    |
| DIP-DRAG SOLDER TEMPERATURE (FOR 5 SEC.)                  | 260         | °C    |

| REV | ECN NO | REVISIONS                                  | DRN | CKD  | APP  | DATE    |
|-----|--------|--------------------------------------------|-----|------|------|---------|
| A   | —      | NEW RELEASE                                | TC  | N.O. | MES  | 10-5-06 |
| B   | —      | UPDATED LED SPECS.<br>REMOVED NOTES 2 & 4. | KLJ | JLC  | N.O. | 4-15-09 |

NOTES:

- LENS COLOR: WATER CLEAR
- LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.
- DIALIGHT PART NUMBER: 521-9947F
- PART NUMBER WITH "F" SUFFIX ENDING IS RoHS COMPLIANT. THE BAG PACKAGING IS MARKED WITH "RoHS COMPLIANT" LABEL OR EQUIVALENT MARKINGS. PART CAN BE WAVE SOLDERED, DIP SOLDERED, OR HAND SOLDERED USING TYPICAL LEAD-FREE SOLDERING PROCESS WITH MAX. 260°C TEMPERATURE 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: 6.000<br>ALL DIM'S IN: INCHES (MM)                                                                                                                                                                                     | DRAWING NUMBER<br>C-17433                                | REV<br>B |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED<br>FRACTIONS: ±1/64<br>DECIMALS (.XX): ±.02<br>DECIMALS (.XXX): ±.010                                                                                                               | TITLE<br>Ø5.0mm GREEN LED                                |          |
| ANGLES: ±1°<br>FINISH:                                                                                                                                                                                                        | MATERIAL                                                 |          |
| FSCM 83330                                                                                                                                                                                                                    | Dialight<br>1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |          |
| SHEET 1 OF 1 FAMILY TABLE:                                                                                                                                                                                                    |                                                          |          |