

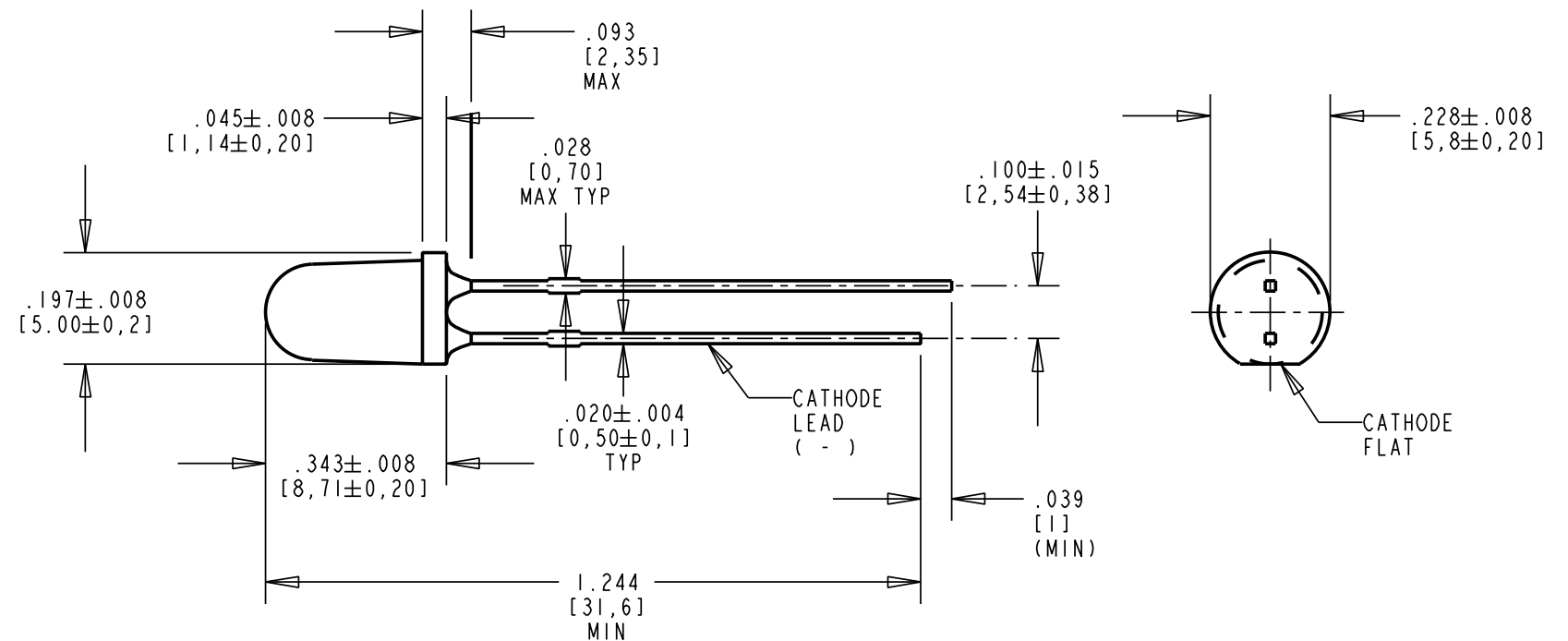
| REV | ECN NO | REVISIONS | DRN | CKD | APP | DATE |
|-----|--------|-------------|-----|-----|-----|------|
| A | — | NEW RELEASE | TWC | | | |

OPERATING CHARACTERISTICS AT 25° C AMBIENT

| LED CHARACTERISTICS | MIN. | TYP. | MAX. | UNITS | TEST CONDITIONS |
|--------------------------------|------|------|------|-------|------------------------------|
| FORWARD VOLTAGE | | 2.00 | 2.6 | V | $I_F = 20 \text{ mA}$ |
| REVERSE VOLTAGE | 5 | 20 | | V | $I_R = 100 \mu\text{A}$ |
| LUMINOUS INTENSITY | 1900 | | 5500 | mc d | $I_F = 20 \text{ mA}$ |
| CAPACITANCE | | 40 | | pF | $V_F = 0; f = 1 \text{ MHz}$ |
| PEAK WAVELENGTH | | 639 | | nm | $I_F = 20 \text{ mA}$ |
| DOMINANT WAVELENGTH | | 630 | | nm | $I_F = 20 \text{ mA}$ |
| VIEWING ANGLE (2 θ 1/2) | | 30 | | deg. | |
| SPECTRAL HALFWIDTH | | 17 | | nm | $I_F = 20 \text{ mA}$ |

ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT

| | UNITS |
|--|----------------|
| PEAK PULSED FORWARD CURRENT $f \geq 1 \text{ kHz}$ | 100 mA |
| AVERAGE FORWARD CURRENT | 30 mA |
| DC FORWARD CURRENT | 50 mA |
| DERATE LINEARLY FROM 50°C | 0.7 mA/°C |
| SOLDERING TEMPERATURE, 5 SEC., 1/16" FROM BASE | 260 °C |
| OPERATING TEMPERATURE | -40 TO +100 °C |
| STORAGE TEMPERATURE | -40 TO +120 °C |



RoHS Compliant 521-9820F

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.

NOTES:

- EPOXY COLOR: CLEAR NON-DIFFUSED.
- DIE: TS AlInGaP, RED.
- LEAD FINISH: RoHS COMPLIANT TIN (Sn), SILVER (Ag), COPPER (Cu).
- SOLDER ADHERANCE: BOTH LEADS PER MIL. STD. 202E, METHOD 208C, EXCEPT STEAM AGING.
- LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
- LEDS TO BE BULK PACKAGED 100 LEDS PER ANTI-STATIC BAG, WITH P/N INTENSITY BINS, COLOR BINS IF APPLICABLE, LOT NUMBER OR DATE CODE AND COUNTRY OF ORIGIN.
- 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 521-9820F.



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

| | | |
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| 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 ALL DIM'S IN: INCHES (MM) | DRAWING NUMBER C-17414 | REV A |
| TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1° | TITLE 5MM RED WC BULK PACKAGING RoHS COMPLIANT (Pb FREE) | |
| FINISH: | MATERIAL | |
| FSCM 83330 | Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 | |
| | SHEET 1 OF 1 | FAMILY TABLE: |