

| REV. | ECN NO. | REVISIONS | DRN. | CKD. | APP. | DATE |
|------|---------|--|------|------|------|----------|
| A | | NEW RELEASE | MC | | HG | 4-22-94 |
| B | | ADDED NOTES 6 AND 7. | TC | D.C. | N.O. | 6-9-99 |
| C | | ADDED "F" SUFFIX RoHS COMPLIANT P/Ns -402F, -407F, WITH RoHS REFLOW PROFILE | TWC | | | |
| D | | ADDED DOMINANT WAVELENGTH SPECS, TOLERANCES, TAPE AND REEL SPEC, LED SCHEMATIC AND NOTE 8. | AJF | KLJ | NO | 10-11-10 |

RoHS COMPLIANT 597-3201-40XF
 Part Numbers with the "F" suffix ending are RoHS Compliant.
 For example: 597-3201-402F
 Reel and bag packaging are marked with "RoHS Compliant" label or equivalent markings. These parts can be used with RoHS reflow profile. Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.

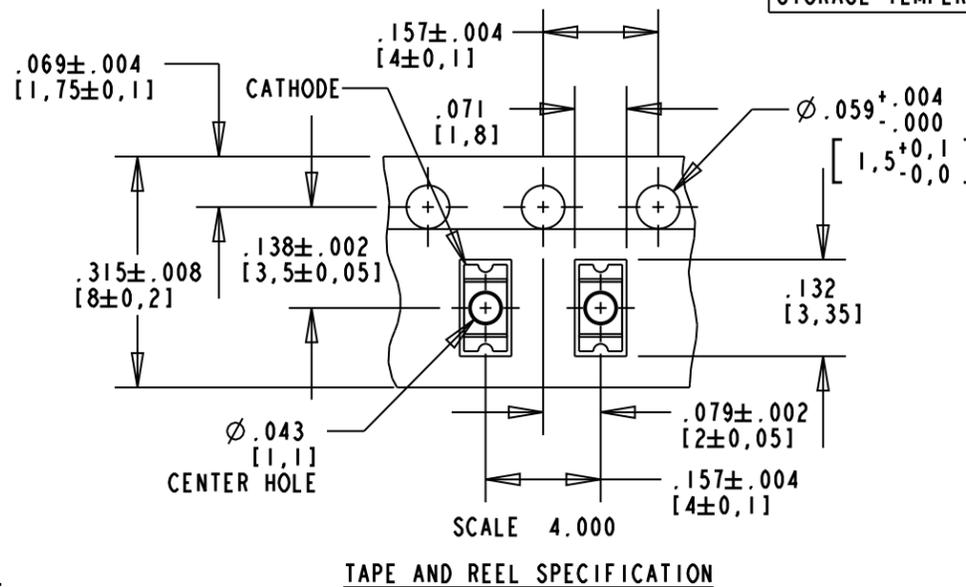
| OPERATING CHARACTERISTICS AT 25°C AMBIENT | | | | | |
|---|------|------|------|--------|------------------------|
| LED CHARACTERISTICS | MIN. | TYP. | MAX. | UNITS | TEST CONDITIONS |
| LUMINOUS INTENSITY | 5.0 | 9.0 | | mc | I _r = 20 mA |
| PEAK WAVELENGTH | | 605 | | nm | |
| DOMINANT WAVELENGTH | 597 | 606 | 612 | nm | |
| FORWARD VOLTAGE | | 2.2 | 2.5 | V | I _r = 20 mA |
| 2 X 1/2 - INTENSITY ANGLE | | 70 | | DEGREE | |

| ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT | | VALUE | UNITS |
|--|--|-------------|-------|
| POWER DISSIPATION | | 75 | mW |
| PEAK FORWARD CURRENT | | 70 | mA |
| CONTINUOUS FORWARD CURRENT | | 30 | mA |
| LINEAR DERATING FROM 25°C | | 0.42 | mA/°C |
| PEAK REVERSE VOLTAGE (I _r = 100 μA) | | 4 | V |
| REFLOW SOLDERING PRE-HEAT 120°C TO 150°C, 60-120 SEC. (FOR 5 SEC.) | | 260 | °C |
| WAVE SOLDERING (FOR 5 SEC.) | | 260 | °C |
| SOLDER DIP (FOR 5 SEC.) | | 260 | °C |
| OPERATING TEMPERATURE | | -30 TO +85 | °C |
| STORAGE TEMPERATURE | | -40 TO +100 | °C |



NOTES:

1. DIE: GaAsP/GaP ORANGE.
2. SOLDER PADS: COPPER BASE, GOLD PLATED.
3. DIALIGHT PART NUMBERS: 597-3201-40XF.
4. SUFFIX -402F FOR 20 PCS ON A SAMPLE STRIP.
5. SUFFIX -407F FOR 7" DIA. REEL, .315" [8mm] WIDE TAPE, PACKAGED 2,500 PCS PER REEL.
6. DEVICES POSITIONED ON REEL WITH CATHODE SIDE TOWARDS SPROCKET.
7. TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER 12 MONTHS.
8. PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.



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|---|---|---------------|
| SCALE: 10.000 | DRAWING NUMBER | REV |
| ALL DIM'S IN: INCHES (MM) | C-16213 | D |
| TOLERANCES: UNLESS OTHERWISE SPECIFIED | TITLE ORANGE SURFACE MOUNT LED | |
| FRACTIONS: ±1/64 | MATERIAL | |
| DECIMALS (.XX): ±.02 | Dialight | |
| DECIMALS (.XXX): ±.008 | 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 | |
| ANGLES: ±1° | FSCM 83330 | |
| FINISH: | SHEET 1 OF 1 | FAMILY TABLE: |