



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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| DIALIGHT PART NUMBER | LED COLOR |
|----------------------|-----------------|
| 597-2211-602F, -607F | AllInGaP ORANGE |
| 597-2222-602F, -607F | AllInGaP YELLOW |
| 597-2501-602F, -607F | AllInGaP GREEN |
| 597-2601-602F, -607F | InGaN GREEN |
| 597-2901-602F, -607F | InGaN BLUE |

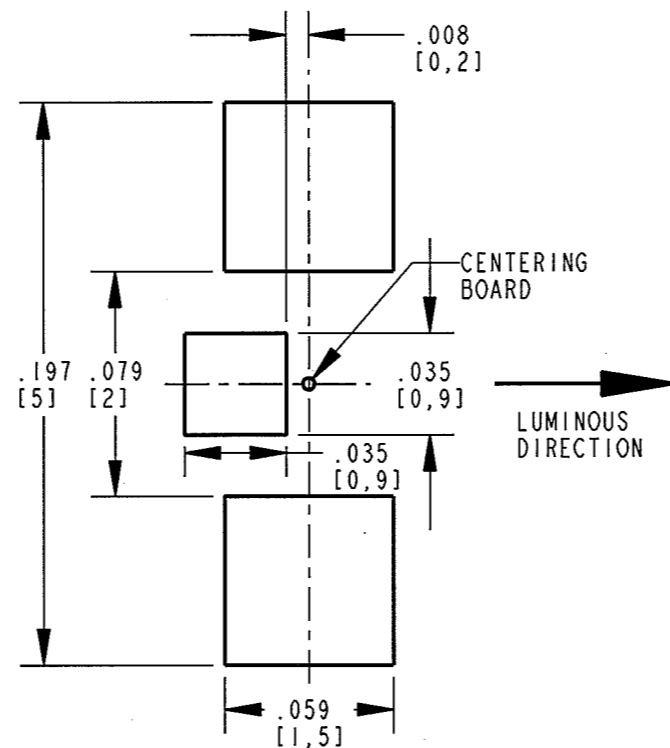
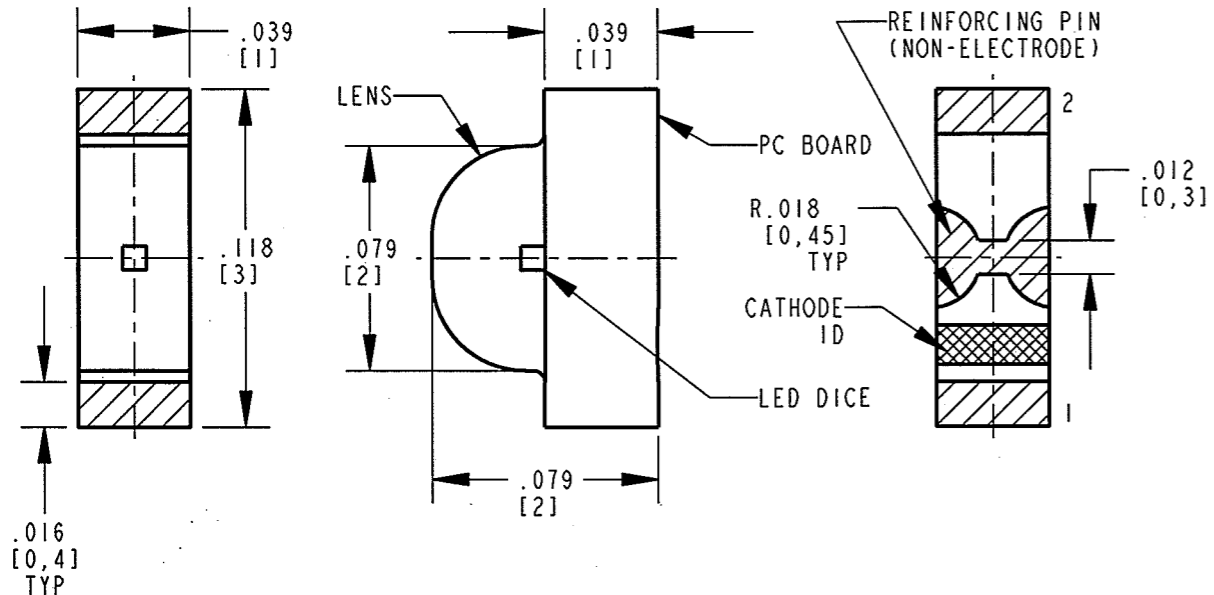
RoHS COMPLIANT 597-2XXX-60XF

Part Numbers with the "F" suffix ending are RoHS Compliant. For example: 597-2222-607F
 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.

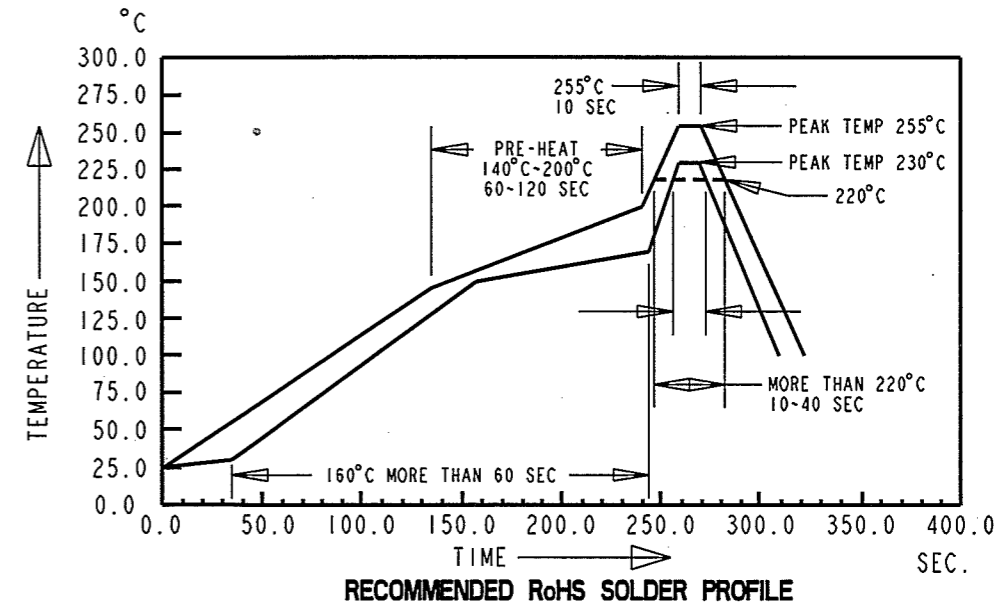


ATTENTION:
 OBSERVE PRECAUTIONS FOR
 HANDLING ELECTROSTATIC
 SENSITIVE DEVICES

| REV | ECN NO | REVISIONS | DRN | CKD | APP | DATE |
|-----|--------|-------------|-----|------|-----|--------|
| A | | NEW RELEASE | KLJ | M.O. | | 1/7/09 |



RECOMMENDED SOLDERING PAD LAYOUT



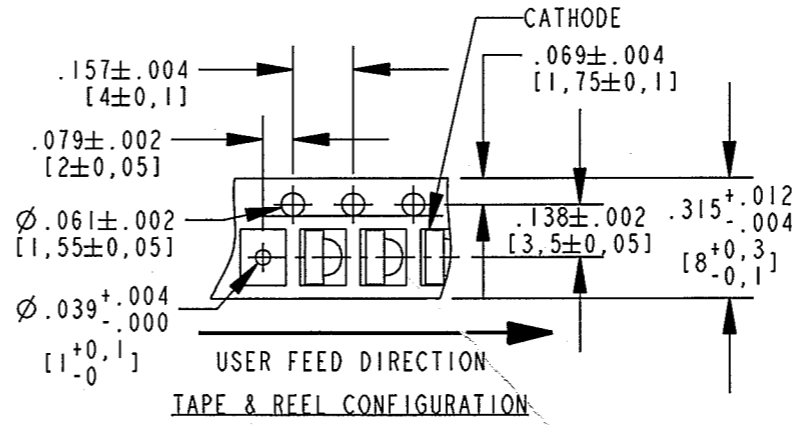
RECOMMENDED RoHS SOLDER PROFILE

NOTES:

- EPOXY COLOR: WATER CLEAR
- MOISTURE SENSITIVITY LEVEL 3.
- LEADS: 0.2 μm GOLD (Au) OVER 4.0 μm NICKEL (Ni) ON COPPER (Cu) BASE.
- TAPE & REEL AS PER EIA STANDARD 481-1-A; CATHODE SIDE TOWARDS SPROCKET.
- TAPE & REEL LEDs MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.
- PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- ...-602F SUFFIX MEANS PARTS PACKAGED ON A 20 PCS SAMPLE STRIP.
- ...-607F SUFFIX MEANS PARTS PACKAGED ON A 7" (Ø180mm) REEL, 3000 PCS/REEL.
- DIALIGHT PART NUMBERS:
 597-2211-602F, -607F; 597-2222-602F, -607F; 597-2501-602F, -607F;
 597-2601-602F, -607F; 597-2901-602F, -607F
- PACKAGING TO INCLUDE LABEL CONTAINING DIALIGHT P/N, DATE CODE/LOT NO., LUMINOUS INTENSITY AND COLOR BINS, QTY/REEL, 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.

| OPERATING CHARACTERISTICS AT 25°C AMBIENT | | | | | | | | | | | | |
|---|---|-----|-----|--|-----|-----|----------------------|--------------------------|-----|-----|----------------------|---------------------|
| COLOR | LUMINOUS INTENSITY (mcd) @ I _F =20mA | | | FORWARD VOLTAGE (V) @ I _F =20mA | | | REVERSE CURRENT (μA) | DOMINANT WAVELENGTH (nm) | | | PEAK WAVELENGTH (nm) | VIEWING ANGLE (DEG) |
| | MIN | TYP | MAX | MIN | TYP | MAX | MAX | MIN | TYP | MAX | TYP | TYP |
| AllInGaP ORANGE | 71 | 125 | 180 | — | 2.0 | 2.4 | 10 | 598 | 605 | 612 | 611 | 130 |
| AllInGaP YELLOW | 71 | 125 | 180 | 1.8 | — | 2.4 | 10 | 587 | 589 | 592 | 588 | 130 |
| AllInGaP GREEN | 28 | 50 | 71 | — | 2.0 | 2.4 | 10 | 570 | 572 | 577 | 574 | 130 |
| InGaN GREEN | 112 | 195 | 280 | 2.8 | 3.2 | 3.6 | 10 | 520 | 525 | 535 | 525 | 130 |
| InGaN BLUE | 71 | 125 | 180 | 2.8 | — | 3.8 | 10 | 465 | 470 | 475 | 468 | 130 |

| ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT | COLOR | | | | | UNITS |
|---|-----------------|-----------------|----------------|-------------|------------|-------|
| | AllInGaP ORANGE | AllInGaP YELLOW | AllInGaP GREEN | InGaN GREEN | InGaN BLUE | |
| POWER DISSIPATION | 75 | 75 | 75 | 76 | 76 | mW |
| CONTINUOUS FORWARD CURRENT | 30 | 30 | 30 | 20 | 20 | mA |
| PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1ms PULSE WIDTH) | 80 | 80 | 80 | 100 | 100 | mA |
| DERATE LINEARLY FROM 25°C | 0.4 | 0.4 | 0.4 | 0.25 | 0.25 | mA/°C |
| REVERSE VOLTAGE | 5 | | | | | V |
| STORAGE TEMPERATURE | -55 TO +85 | | | -30 TO +100 | | °C |
| OPERATING TEMPERATURE | -55 TO +85 | | | -20 TO +80 | | °C |



TAPE & REEL CONFIGURATION

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| | | |
|--|---|-----|
| SCALE: 15.000 | DRAWING NUMBER | REV |
| ALL DIM'S IN: INCHES (MM) | C-17683 | A |
| TOLERANCES: UNLESS OTHERWISE SPECIFIED | TITLE 1208 SMT RIGHT ANGLE LED RoHS COMPLIANT | |
| FRACTIONS: ±1/64 | MATERIAL | |
| DECIMALS (.XX): ±.01 | Dialight | |
| DECIMALS (.XXX): ±.005 | 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 | |
| ANGLES: ±1° | FSCM 83330 | |
| FINISH: | SHEET 1 OF 1 FAMILY TABLE: | |