

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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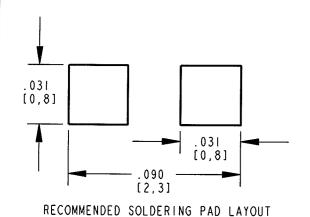


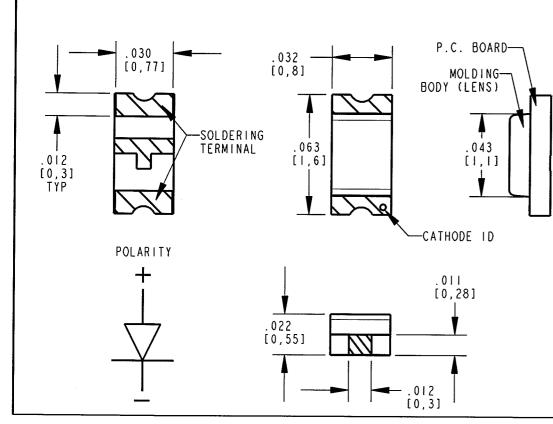




| ABSOLUTE MAXIMUM RATINGS AT 25°C AN | UNITS | |
|--|---------------|-------|
| OPERATING TEMPERATURE | -20 TO +80 | °C |
| STORAGE TEMPERATURE | -55 TO +105 | °C |
| FORWARD CURRENT | 20 | mΑ |
| PEAK FORWARD CURRENT (1/10 DUTY CYL, O.Ims PULSE WIDTH) | 100 | mA |
| REVERSE VOLTAGE | 5 | ٧ |
| POWER DISSIPATION | 70 | m₩ |
| DERATE LINEARLY FROM 25°C | 0.25 | mA/°C |
| WAVE SOLDERING CONDITION | 260 FOR 5 SEC | °C |

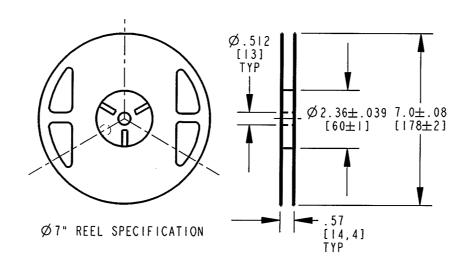
| LUMINOUS INTENSITY SPECIFICATION TABLE | | | | | |
|--|------------------------------------|------------------|--|--|--|
| IV BIN | LUMINOUS INTENSITY (mcd) @ IF=10mA | | | | |
| ווט עו | MIN | MAX | | | |
| RI | 112 | 146 | | | |
| R2 | 146 | 180 | | | |
| \$1 | 180 | 240 | | | |
| TOLERANCE ON E | ACH LUMINOUS INTEN | SITY BIN IS ±15% | | | |

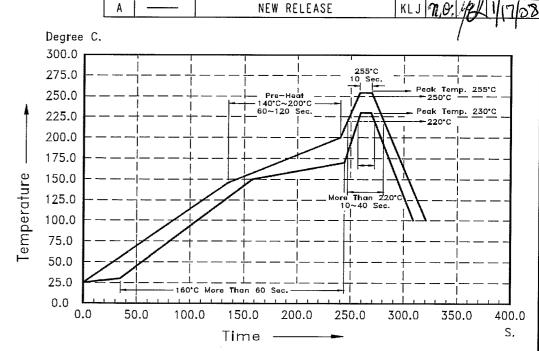




| OPERATING CHARACTERISTICS AT 25°C AMBIENT | | | | | | |
|---|----|-------|------|-------|--------|-----------------|
| CHARACTERISTICS | | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
| LUMINOUS INTENSI | ΓΥ | 112.0 | | 240.0 | mc d | 1 = 10 mA |
| FORWARD VOLTAGE | | 2.80 | | 3.40 | ٧ | lr = 10 mA |
| REVERSE CURRENT | | | | 10 | μA | V R = 5 V |
| VIEWING ANGLE | | | 130 | | Degree | |
| CHROMATICITY | X | | 0.31 | | | 1 - 104 |
| COORDINATES | у | | 0.32 | | | I = 10 mA |

| UUS 0050151017101771515 | | | | | | |
|--|-----------------------------------|-------|-------|-------|-------|--|
| HUE SPECIFICATION TABLE | | | | | | |
| HUE BIN | COLOR BIN LIMITS @ 1=10mA | | | | | |
| | CIE 1931 CHROMATICITY COORDINATES | | | | | |
| Α0 | X | 0.280 | 0.296 | 0.283 | 0.264 | |
| | у | 0.248 | 0.276 | 0.305 | 0.267 | |
| В3 | X | 0.287 | 0.307 | 0.304 | 0.283 | |
| | у | 0.295 | 0.315 | 0.330 | 0.305 | |
| B 4 | x | 0.307 | 0.330 | 0.330 | 0.304 | |
| | у | 0.315 | 0.339 | 0.360 | 0.330 | |
| B5 | X | 0.296 | 0.311 | 0.307 | 0.287 | |
| | у | 0.276 | 0.294 | 0.315 | 0.295 | |
| В6 | X | 0.311 | 0.330 | 0.330 | 0.307 | |
| | у | 0.294 | 0.318 | 0.339 | 0.315 | |
| CO | X | 0.330 | 0.356 | 0.361 | 0.330 | |
| | у | 0.318 | 0.351 | 0.385 | 0.360 | |
| TOLERANCE ON EACH HUE (x,y) BIN IS ±0.01 | | | | | | |



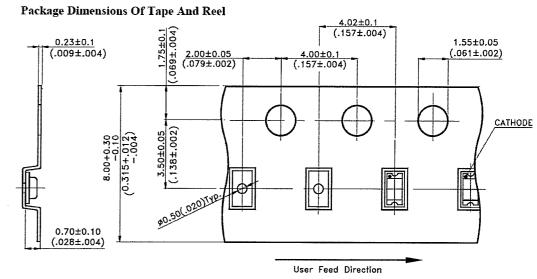


REVISIONS

DRN CKD APP/

REV | ECN NO

RECOMMENDED ROHS SOLDER PROFILE



NOTE: TAPE AND REEL PACKAGE DIMENSIONS ARE IN MILLIMETERS (INCHES).



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

LENS COLOR: YELLOW LED CHIP: InGaN WHITE

NOTES:

LEADS ARE GOLD (Au) PLATED FINISH.

-830F SUFFIX MEANS PARTS ARE PACKED ON A 7 INCH REEL, 3000 PCS/REEL. -831F SUFFIX MEANS PARTS ARE PACKED ON A 20 PCS SAMPLE STRIP.

DIALIGHT PART NUMBER: 597-3901-830F, 597-3901-831F THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

MOISTURE SENSITIVITY LEVEL 3.

8. TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.

RoHS Compliant 597-3901-830F, -831F

Part Numbers with the "F" suffix ending are RoHS Compliant.
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.

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ALL DIM'S IN: INCHES (MM) C-17584 TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 1.6mm x 0.8mm x 0.55mm SMT DECIMALS (.XX): ±.01 WHITE LED; ROHS COMPLIANT DECIMALS (.XXX): ±.004 DECIMALS (.XXXX): ±.0005 MATERIAL ANGLES: +1° FINISH: 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 83330 SHEET I OF I FAMILY TABLE: