imall

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.

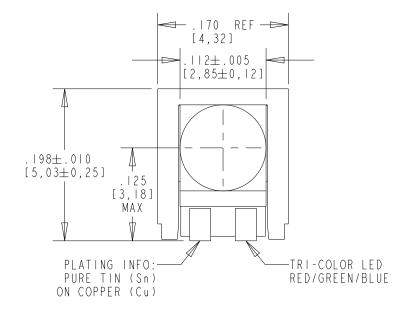
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

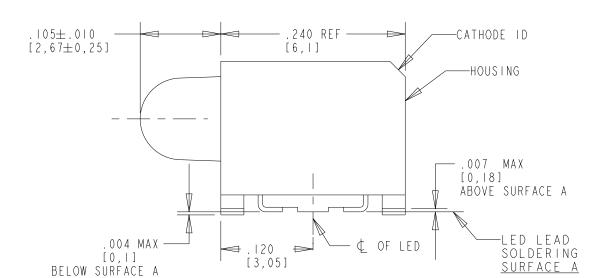


Contact us

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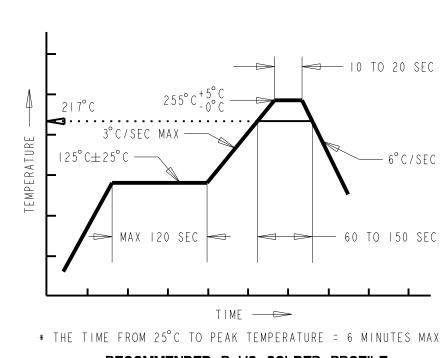






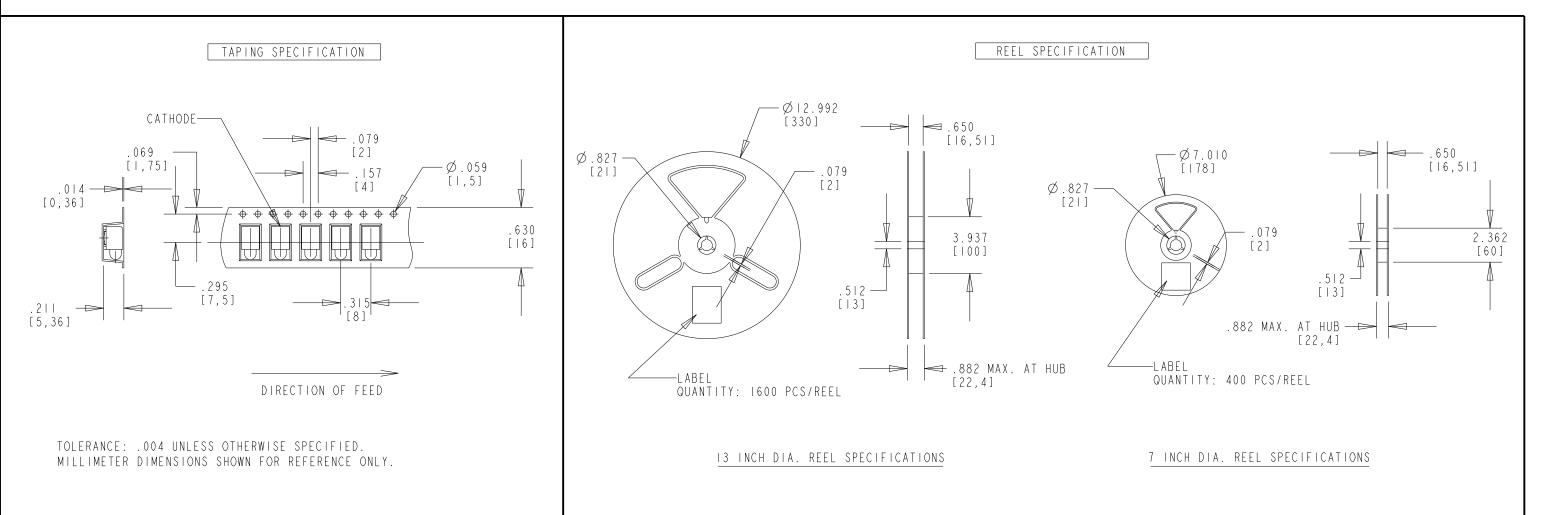
| OPERATING CHARACTERISTICS AT 25°C AMBIENT | | | | | | | | |
|---|----------------------|-----------------------|---------------------|--------|------------------------|--|--|--|
| LED CHARACTERISTICS | COLOR | ΤΥΡ | MAX | UNITS | TEST CONDITIONS | | | |
| LUMINOUS INTENSITY | RED GREEN BLUE | 60 50 30 | | m c d | I _F = 20 mA | | | |
| FORWARD VOLTAGE | RED GREEN BLUE | . 9 3 . 4 3 . 4 | 2.4 4.05 4.05 | V | I _F = 20 mA | | | |
| REVERSE CURRENT | RED GREEN BLUE | | 0 0 0 0 | μA | V _R = 5V | | | |
| PEAK WAVELENGTH | RED GREEN BLUE | 635 523 468 | | nm | | | | |
| DOMINANT WAVELENGTH | RED GREEN BLUE | 626 525 470 | | nm | | | | |
| VIEWING ANGLE | ALL | 40 | | DEGREE | | | | |

| ABSOLUTE MAXIMUM RATINGS AT 25 °C AMBIENT | RED | GREEN | BLUE | UNIT |
|---|-------------|---------|------|-------|
| POWER DISSIPATION | 72 | 120 | 120 | mW |
| TOWER DISSTRATION | 12 | 120 | 120 | 11197 |
| CONTINUOUS FORWARD CURRENT | 30 | 20 | 20 | mA |
| DERATE LINEARLY FROM 80°C (BLUE & GREEN FROM 70°C) BASED ON I CHIP ON | 1.00 | 0.5 | 0.5 | mA/°C |
| PEAK FORWARD CURRENT | 100 | 100 | 100 | mA |
| REVERSE VOLTAGE | 5 | 5 | 5 | V |
| OPERATING TEMPERATURE RANGE | -55 TO +100 | | | °C |
| STORAGE TEMPERATURE RANGE | -55 TO +100 | | | °C |
| JUNCTION TEMPERATURE | | + 0 | | °C |
| | | | | |

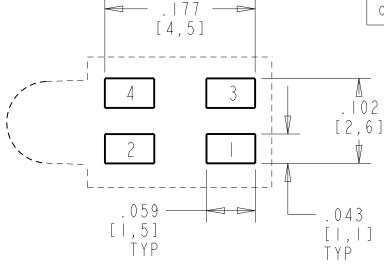


COMMON ANODE

PAD 2







RECOMMENDED SOLDER PAD LAYOUT

RED CATHODE PAD I

GREEN CATHODE

PAD 3

BLUE CATHODE

PAD 4

6°C/SEC MAX

NOTES:

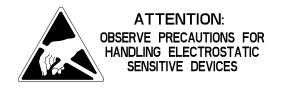
- I. MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.
- 2. PAD NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- STORAGE CONDITIONS FOR TAPED PRODUCT: RE-TAPING MAY BE NECESSARY FOR 3. PRODUCT STORED MORE THAN TWELVE MONTHS.
- 4. ORDER QUANTITY IS LED ASSEMBLIES, NOT REELS.
- -831F SUFFIX MEANS PARTS ARE PACKED ON A 20 PCS SAMPLE STRIP. 5. -832F SUFFIX MEANS PARTS ARE PACKED ON A 7 INCH REEL, 400 PCS/REEL. -833F SUFFIX MEANS PARTS ARE PACKED ON A 13 INCH REEL, 1600 PCS/REEL.
- 6. LENS MOVEMENT IN RELATIONSHIP TO THE HOUSING IS: .009" T.I.R. VERTICALLY. .007" T.I.R. HORIZONTALLY.
- 7. FRONT AND REAR TERMINALS OF ASSEMBLY TO BE WITHIN .005 COPLANARITY.
- 8. DIALIGHT PART NUMBERS: 591-3501-831F, 591-3501-832F, 591-3501-833F.
- 9. DEVICE HAS A MOISTURE SENSITIVITY LEVEL "2a" CAUTION LABEL APPLIED AS PER JEDEC STD. 033.
- IO. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

— 60 TO 150 SEC

RECOMMENDED RoHS SOLDER PROFILE

RoHS Compliant 591-3501-83XF

Part Numbers with the "F" suffix ending are RoHS Compliant. For example: 591-3501-832F 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.



| | OF ANY PARTS WITHIN THIS DRAWING A | RAWING RE | | | | |
|--|---|--------------|--|--|--|--|
| SCALE: DRAWING SCALE | DRAWING NUMBER | REV | | | | |
| ALL DIM'S IN: INCHES (MM) | C-17620 | C | | | | |
| TOLERANCES: UNLESS OTHERWISE SPECIFIED | C T T C C | | | | | |
| FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 | TITLE R/G/B PRISM-ROUND LENS Rohs COMPLIANT | | | | | |
| DECIMALS (.XXXX): ±.003 DECIMALS (.XXXX): ±.0005 ANGLES: ±1° | MATERIAL | | | | | |
| FINISH: | source and | | | | | |
| FSCM 8333() | SHEET I OF I FAMILY TABLE: | | | | | |