

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Dialight](#)

[5640700110F](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

| PART NUMBER<br>AND LEGEND | LED COLOR      |                |                | REVISIONS |        |     |         |
|---------------------------|----------------|----------------|----------------|-----------|--------|-----|---------|
|                           | POSITION 1     | POSITION 2     | POSITION 3     | REV       | ECN No | DRN | DATE    |
| 564-0700-100F             | RED / GREEN    | ** BLANK **    | ** BLANK **    | A         | ---    | TWC | 5-19-06 |
| 564-0700-101F             | RED / GREEN    | ** BLANK **    | RED / GREEN    | A         | ---    | TWC | 5-19-06 |
| 564-0700-110F             | RED / GREEN    | RED / GREEN    | ** BLANK **    | A         | ---    | TWC | 5-19-06 |
| 564-0700-111F             | RED / GREEN    | RED / GREEN    | RED / GREEN    | A         | ---    | TWC | 5-19-06 |
| 564-0700-141F             | RED / GREEN    | YELLOW / GREEN | RED / GREEN    | A         | ---    | TWC | 5-19-06 |
| 564-0700-144F             | RED / GREEN    | YELLOW / GREEN | YELLOW / GREEN | A         | ---    | TWC | 5-19-06 |
| 564-0700-414F             | YELLOW / GREEN | RED / GREEN    | YELLOW / GREEN | A         | ---    | TWC | 5-19-06 |
| 564-0700-440F             | YELLOW / GREEN | YELLOW / GREEN | ** BLANK **    | A         | ---    | TWC | 5-19-06 |
| 564-0700-441F             | YELLOW / GREEN | YELLOW / GREEN | RED / GREEN    | A         | ---    | TWC | 5-19-06 |
| 564-0700-444F             | YELLOW / GREEN | YELLOW / GREEN | YELLOW / GREEN | A         | ---    | TWC | 5-19-06 |

**NOTES:**

- 1- LEADS TO FIT INTO HOLES SPACED AS PER HOLE PATTERN
- 2- LEADS TO BE FREE OF DEFORMATION AFTER BENDING AND CUTTING
- 3- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- 4- WHEN A ZERO APPEARS IN THE LAST 3 DIGITS OF THE PART NUMBER THIS MEANS NO LAMP REQUIRED IN THAT POSITION
- 5- PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PARTS
- 6- DIALIGHT PART NUMBER: 564-0700-XXXX
- 7- 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 FOR YELLOW / GREEN**

| LED CHARACTERISTICS                 | COLOR                               | MIN.              | TYP.              | MAX.              | UNITS   | TEST CONDITIONS           |
|-------------------------------------|-------------------------------------|-------------------|-------------------|-------------------|---------|---------------------------|
| LUMINOUS INTENSITY                  | GREEN<br>YELLOW                     | 2.5<br>2.5        | 6.3<br>4.3        | 15<br>15          | mc d    | $I_f = 10 \text{ mA}$     |
| FORWARD VOLTAGE                     | GREEN<br>YELLOW                     |                   | 2.1               | 2.8               | V       | $I_f = 20 \text{ mA}$     |
| PEAK WAVELENGTH ( $\lambda_p$ )     | GREEN<br>YELLOW                     |                   | 565<br>585        |                   | nm      |                           |
| DOMINANT WAVELENGTH ( $\lambda_d$ ) | GREEN<br>YELLOW (Y3)<br>YELLOW (Y2) | 563<br>585<br>583 | 569<br>589<br>587 | 572<br>589<br>587 | nm      | MEASURED ON EXELTRON 2001 |
| VIEWING ANGLE (2 $\phi$ 1/2)        | GREEN<br>YELLOW                     |                   | 80                |                   | DEGREES |                           |

**ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT FOR YELLOW / GREEN**

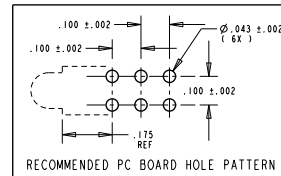
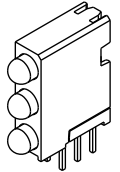
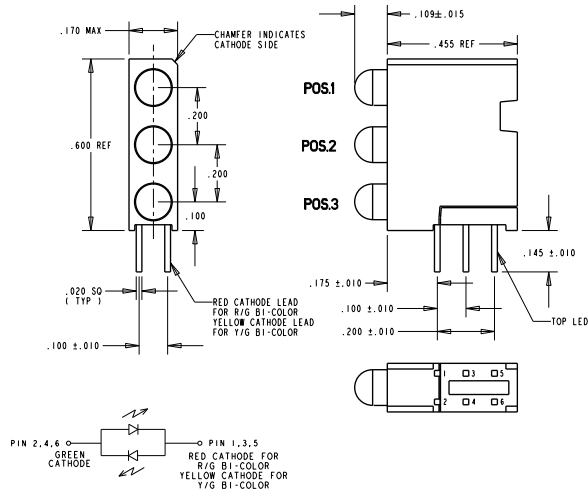
|                                                            | GREEN       | YELLOW | UNITS |
|------------------------------------------------------------|-------------|--------|-------|
| POWER DISSIPATION                                          | 100         | 60     | mW    |
| DERATE LINEARLY FROM 50° C                                 | 0.4         | 0.25   | mW/°C |
| CONTINUOUS FORWARD CURRENT                                 | 30          | 20     | mA    |
| PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH) | 120         | 80     | mA    |
| LEAD SOLDERING TEMPERATURE, 5 SEC., 1/16" FROM BODY        | 260         |        | °C    |
| OPERATING TEMPERATURE                                      | -55 TO +100 |        | °C    |
| STORAGE TEMPERATURE                                        | -55 TO +100 |        | °C    |

**ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT FOR RED / GREEN**

|                                                     | RED               | GREEN | UNITS |
|-----------------------------------------------------|-------------------|-------|-------|
| POWER DISSIPATION                                   | 100               | 60    | mW    |
| DERATE LINEARLY FROM 50° C                          | 0.4               | 0.25  | mW/°C |
| CONTINUOUS FORWARD CURRENT                          | 30                | 20    | mA    |
| PEAK FORWARD CURRENT (10 ms PULSE WIDTH, 1/10 DUTY) | 120               | 80    | mA    |
| PEAK REVERSE VOLTAGE                                | 5                 |       | V     |
| LEAD SOLDERING TEMPERATURE, 6 SEC., 1/16" FROM BASE | 260° C            |       |       |
| OPERATING TEMPERATURE                               | -55° C TO +100° C |       |       |
| STORAGE TEMPERATURE                                 | -55° C TO +100° C |       |       |

**OPERATING CHARACTERISTICS AT 25°C AMBIENT FOR RED / GREEN**

| CHARACTERISTICS     | COLOR | MIN | TYP  | MAX | UNITS         | TEST CONDITIONS       |
|---------------------|-------|-----|------|-----|---------------|-----------------------|
| FORWARD VOLTAGE     | RED   | 2.0 | 2.8  |     | V             | $I_f = 20 \text{ mA}$ |
| REVERSE CURRENT     | RED   |     |      | 100 | $\mu\text{A}$ | $V_R = 5 \text{ V}$   |
| PEAK WAVELENGTH     | RED   | 635 |      |     | nm            | $I_f = 20 \text{ mA}$ |
| DOMINANT WAVELENGTH | RED   | 630 | 635  | 640 | nm            | $I_f = 20 \text{ mA}$ |
| VIEWING ANGLE       | RED   | 60  |      |     | DEGREE        | $I_f = 20 \text{ mA}$ |
| LUMINOUS INTENSITY  | RED   | 2.5 | 4.7  | 15  | mc d          | $I_f = 10 \text{ mA}$ |
|                     | GREEN | 3.7 | 10.0 | 20  |               |                       |



**RoHS Compliant 597-0700-XXXX Bi-color Thru hole CBI**

Part Numbers with the "F" suffix ending are RoHS Compliant.  
Example: 597-0700-111F  
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.



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

|                                                                                                                                                                                                                               |                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 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                                                                                                                                                                                                          | DRAWING NUMBER                              |
| ALL DIMS (IN: INCHES (MM))                                                                                                                                                                                                    | C-17408                                     |
| TOLERANCES: UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                        | REV A                                       |
| FRACTIONS: 1/16, 1/32, 1/64                                                                                                                                                                                                   | TITLE STANDARD 3X1 CBI BLOCK                |
| DECIMALS (XXX): 0.01                                                                                                                                                                                                          | RoHS COMPLIANT                              |
| DECIMALS (XXXX): 0.005                                                                                                                                                                                                        | MATERIAL                                    |
| ANGLES: 30°                                                                                                                                                                                                                   | Dialight                                    |
| FINISH:                                                                                                                                                                                                                       | 1501 ROUTE 34 SOUTH FARMINGDALE, N.J. 07127 |
| FSCM 83330                                                                                                                                                                                                                    | SHEET 1 OF 1 FAMILY TABLE:                  |