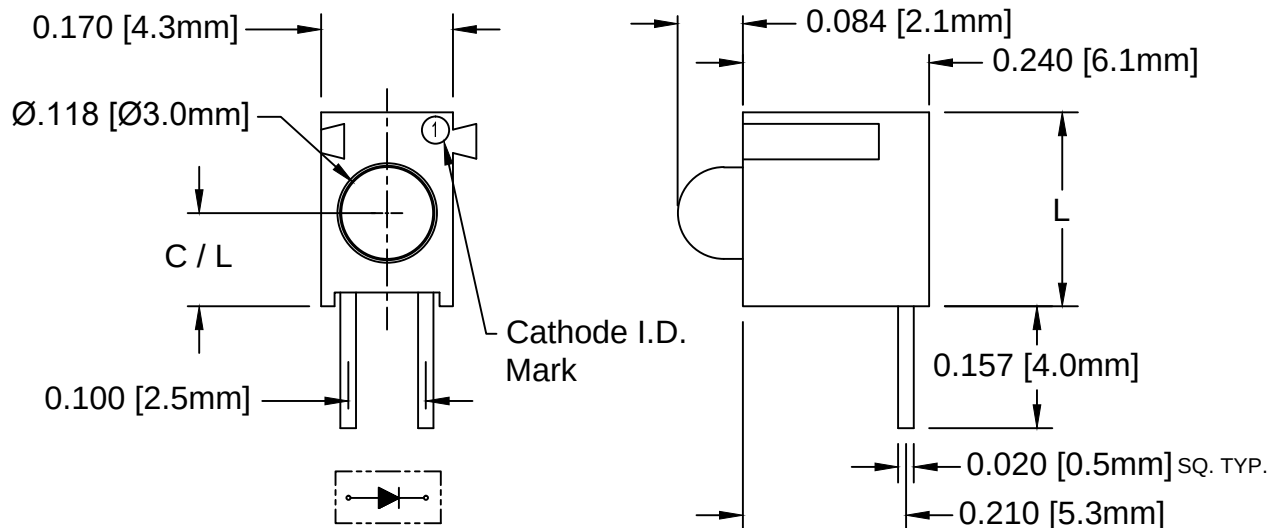


| REV. | DESCRIPTION                      | DATE     | APPROVED |
|------|----------------------------------|----------|----------|
| B    | Engineering Update w/o Changes   | 03/05/04 | M. C.    |
| C    | LED Package Change to 3XX-S LEDs | 10/26/07 | M. C.    |
| D    | Added H130CAD-XXX                | 02/29/08 | M. C.    |
| E    | Engineering Update w/o Changes   | 06/20/16 | J. C.    |
| F    | Updated per EOL Notice           | 11/08/19 | A. V.    |
| G    | ECO-1073 Removed BOM             | 10/08/20 | A. V.    |



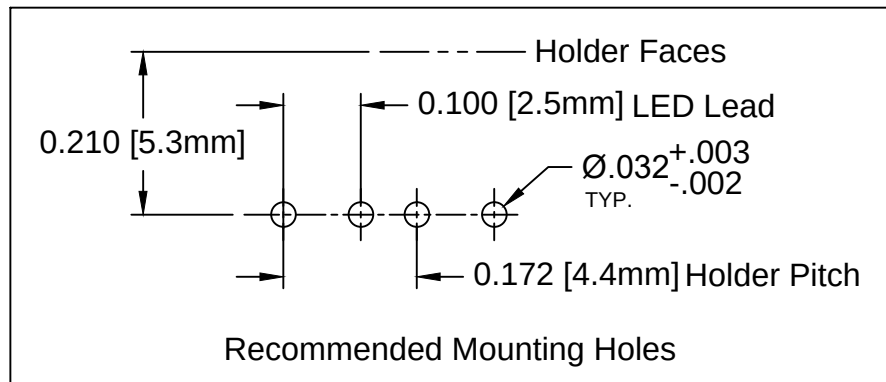
EXAMPLE:

H130CRD-160\*

Centerline "C/L"

LED Color & Lens Appearance.  
Omit 3 when ordering.

Series \* XXX = Centerline "C/L"



| Available Centerlines |            |            |
|-----------------------|------------|------------|
| XXX                   | C/L        | L          |
| 120                   | .120 (3.0) | .250 (6.4) |
| 140                   | .140 (3.6) | .270 (6.9) |
| 160                   | .160 (4.1) | .290 (7.4) |
| 180                   | .180 (4.6) | .310 (7.9) |

## ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

|                                             |                      |
|---------------------------------------------|----------------------|
| REVERSE VOLTAGE                             | 5V                   |
| REVERSE CURRENT                             | 100µA                |
| OPERATING TEMPERATURE RANGE                 | -25° C - 85° C       |
| STORAGE TEMPERATURE                         | -30° C - 100° C      |
| LEAD SOLDERING TEMPERATURE(1/16" FROM BODY) | 260° C FOR 5 SECONDS |

## CUSTOMER USE DRAWING

|                                                    |                   |                                                                            |                     |
|----------------------------------------------------|-------------------|----------------------------------------------------------------------------|---------------------|
| STANDARD TOLERANCE<br>(UNLESS OTHERWISE SPECIFIED) |                   | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |                     |
| DECIMALS                                           | ANGULAR           |                                                                            |                     |
| .X ± .1                                            | X° ± 1°           |                                                                            |                     |
| .XX ± .02                                          |                   |                                                                            |                     |
| .XXX ± .010                                        |                   | TITLE: T-1 (3MM) INTERLOCKING 90° SINGLE-LEVEL VAR. C/L LED ASSY           |                     |
| DESIGNED:<br>D. Green                              | DATE:<br>06/11/03 | DRAWING NO:<br>H130CXX-XXX                                                 | REVISION:<br>G      |
| REVISED:<br>V. Chavez                              | DATE:<br>10/08/20 | SHEET<br>SIZE<br>A                                                         | CAGE CODE:<br>32559 |
| CHECKED:<br>A. Valdez                              | DATE:<br>10/08/20 | SCALE: N/A                                                                 | SHEET # 1 OF 2      |
| CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING     |                   |                                                                            |                     |

|      |              |      |          |
|------|--------------|------|----------|
| REV. | DESCRIPTION  | DATE | APPROVED |
|      | SEE SHEET #1 |      |          |
|      |              |      |          |

| LED Assy. No. | Peak Wave Length<br>λp(nm) | Emitted Color | Lens Appearance | Electro-Optical Data |           |      |             | Viewing Angle<br>2 Y ½<br>(Deg) | LED P/N |
|---------------|----------------------------|---------------|-----------------|----------------------|-----------|------|-------------|---------------------------------|---------|
|               |                            |               |                 | If<br>(mA)           | Vf<br>(V) |      | Iv<br>(mcd) |                                 |         |
|               |                            |               |                 | Max.                 | Typ.      | Max. | Typ.        |                                 |         |
| STANDARD      |                            |               |                 | Data @ 20mA          |           |      |             |                                 |         |
| H130CBWD-XXX  | 430                        | BLUE          | DIFFUSED        | 20                   | 4.0       | 4.5  | 20          | 45                              | 3BWD-S  |
| H130CGD-XXX   | 565                        | GREEN         | DIFFUSED        | 20                   | 2.2       | 2.6  | 30          | 45                              | 3GD-S   |
| H130CYD-XXX   | 590                        | YELLOW        | DIFFUSED        | 20                   | 2.1       | 2.6  | 20          | 45                              | 3YD-S   |
| H130CHD-XXX   | 625                        | HE RED        | DIFFUSED        | 20                   | 2.0       | 2.6  | 30          | 45                              | 3HD-S   |
| H130CRD-XXX   | 700                        | RED           | DIFFUSED        | 20                   | 1.7       | 2.0  | 6           | 45                              | 3RD-S   |
| H130CSR-XXX   | 645                        | SUPER RED     | DIFFUSED        | 20                   | 1.7       | 2.6  | 90          | 45                              | 3SRD-S  |
| H130CAD-XXX   | 610                        | AMBER         | DIFFUSED        | 20                   | 2.2       | 2.6  | 30          | 45                              | 3AD-S   |
| LOW CURRENT   |                            |               |                 | Data @ 2mA           |           |      |             |                                 |         |
| H130CGDL-XXX  | 568                        | GREEN         | DIFFUSED        | 2                    | 1.9       | 2.2  | 6           | 45                              | 3GDL-S  |
| H130CYDL-XXX  | 590                        | YELLOW        | DIFFUSED        | 2                    | 1.9       | 2.2  | 4           | 45                              | 3YDL-S  |
| H130CHDL-XXX  | 625                        | HE RED        | DIFFUSED        | 2                    | 1.8       | 2.2  | 6           | 45                              | 3HDL-S  |

**CUSTOMER USE DRAWING**

|            |       |                                                |                |
|------------|-------|------------------------------------------------|----------------|
|            |       | <div>BIVAR®</div>                              |                |
| CAGE CODE  | 32559 | DRAWING NO:<br>H130CXX-XXX                     | REVISION:<br>G |
| SHEET SIZE | A     | SCALE: NONE                                    | SHEET # 2 OF 2 |
|            |       | CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING |                |