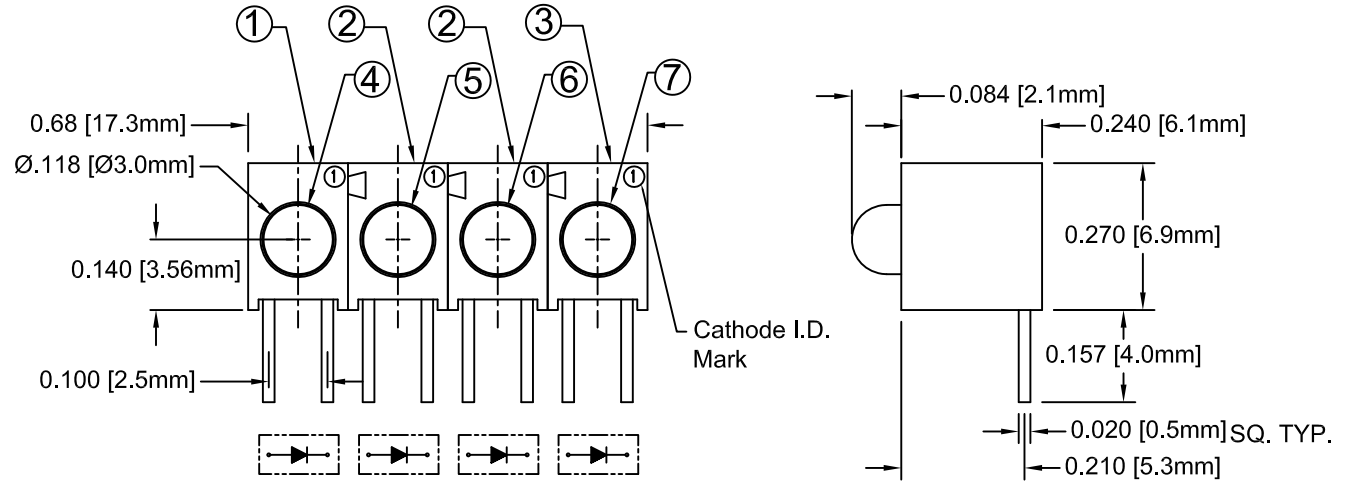
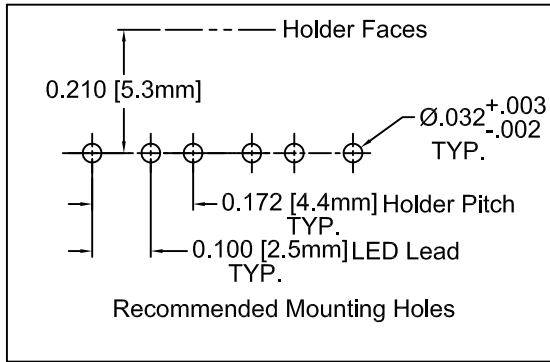


| ITEM | QTY | PART NUMBER  | PART DESCRIPTION                   |
|------|-----|--------------|------------------------------------|
| 1    | 1   | H-132C-1-140 | T-1 (3mm) LED HOLDER, INTERLOCKING |
| 2    | 2   | H-130C-1-140 | T-1 (3mm) LED HOLDER, INTERLOCKING |
| 3    | 1   | H-133C-1-140 | T-1 (3mm) LED HOLDER, INTERLOCKING |
| 4    | 1   | 3GD-S        | T-1 (3mm) Shouldered LED           |
| 5    | 1   | 3YD-S        | T-1 (3mm) Shouldered LED           |
| 6    | 1   | 3AD-S        | T-1 (3mm) Shouldered LED           |
| 7    | 1   | 3HD-S        | T-1 (3mm) Shouldered LED           |

| REV. | DESCRIPTION                    | DATE     | APPROVED |
|------|--------------------------------|----------|----------|
| A    | Engineering Release.           | 02/28/07 | M. C.    |
| B    | Corrected Holder Part Numbers. | 05/15/07 | M. C.    |
| C    | Corrected Assembly Height.     | 06/22/07 | M. C.    |
| D    | LED Spec Upgrade               | 07/10/08 | M. C.    |



| LED Part No. | Chip      |               |                          | Lens Appearance | Absolute Maximum Ratings |         |                |              | Electro-Optical Data @ 20mA |      |          | Viewing Angle 2 θ 1/2 (Deg) |
|--------------|-----------|---------------|--------------------------|-----------------|--------------------------|---------|----------------|--------------|-----------------------------|------|----------|-----------------------------|
|              | Material  | Emitted Color | Peak Wave Length λ P(nm) |                 | Δλ (nm)                  | Pd (mW) | If (Typ.) (mA) | Peak If (mA) | Vf (V)                      |      | Iv (mcd) |                             |
|              |           |               |                          |                 |                          |         |                |              | Typ.                        | Max. | Typ.     |                             |
| 3GD-S        | GaP/GaP   | GREEN         | 568                      | DIFFUSED        | 30                       | 80      | 30             | 150          | 2.1                         | 2.8  | 25       | 40                          |
| 3YD-S        | GaAsP/GaP | YELLOW        | 590                      | DIFFUSED        | 35                       | 85      | 30             | 150          | 2.0                         | 2.8  | 20       | 40                          |
| 3AD-S        | GaAsP/GaP | AMBER         | 605                      | DIFFUSED        | 35                       | 80      | 30             | 150          | 2.0                         | 2.8  | 25       | 40                          |
| 3HD-S        | GaAsP/GaP | HE RED        | 625                      | DIFFUSED        | 40                       | 80      | 30             | 150          | 2.0                         | 2.8  | 30       | 40                          |

## ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

REVERSE VOLTAGE \_\_\_\_\_ 5V

REVERSE CURRENT ( VR=5V) \_\_\_\_\_ 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

|   |                       |   |
|---|-----------------------|---|
| STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) |                       | <br><b>BIVAR</b> <sup>®</sup><br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974                 |
| DECIMALS  | ANGULAR               |   |
| .X ±.1  | X° ± 1°               |   |
| .XX ±.02  |                       | <b>TITLE:</b> T-1 (3mm) LED'S & HOLDER, 90° INTERLOCKED ASSEMBLY<br><b>PART NO:</b> H134CGYAH-140<br><b>REVISION:</b> D |
| .XXX ±.010                                      |                       |   |
| DESIGNED: <b>Dan Beckman</b>                    | DATE: <b>02/28/07</b> | <b>CAGE CODE :</b> 32559 <b>SHEET #</b> 1 <b>OF</b> 1<br><small>CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.</small> |
| CHECKED: <b>T. Yin</b>                          | DATE: <b>02/28/07</b> |   |