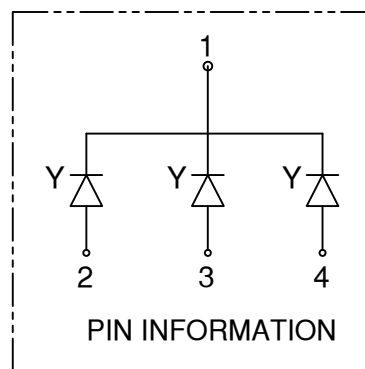
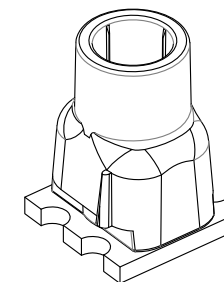
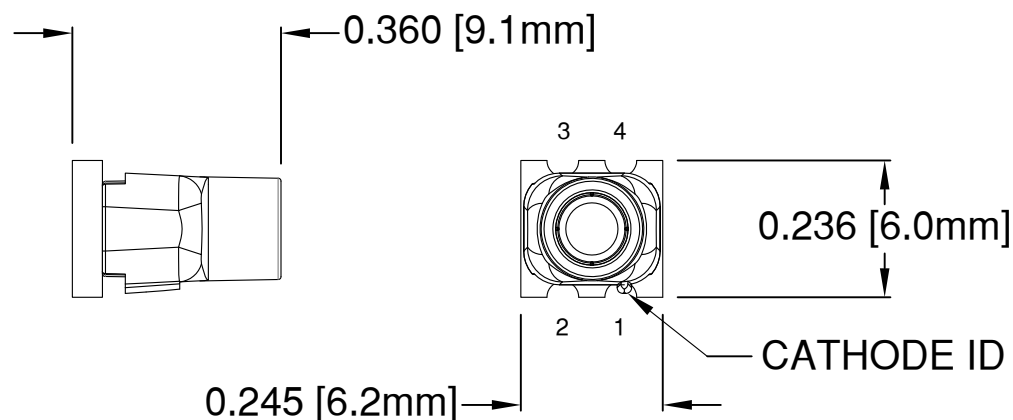


| REV. | DESCRIPTION                                | DATE     | APPROVED |
|------|--------------------------------------------|----------|----------|
| B    | Engineering Release                        | 02/27/15 | J. C.    |
| C    | Revised Side View, See Page 4              | 03/20/15 | J. C.    |
| D    | Corrected Typo in Recom. Soldering Pattern | 09/12/16 | J. C.    |
| E    | Updated Per ECO-1353                       | 09/23/25 | A. F.    |



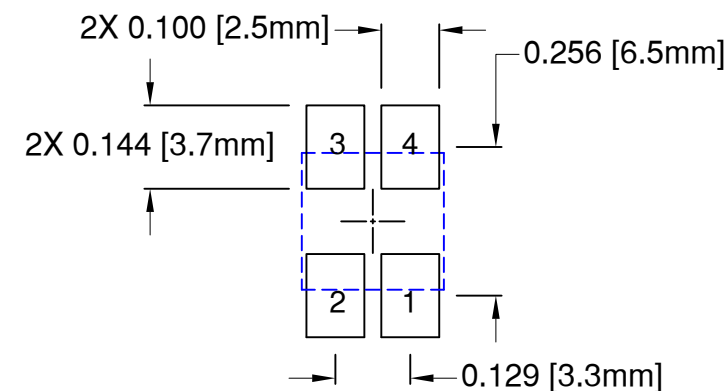
## ABSOLUTE MAXIMUM RATINGS at Ta=25°C

|                             |                     |
|-----------------------------|---------------------|
| REVERSE VOLTAGE             | 5V                  |
| REVERSE CURRENT             | 100μA               |
| OPERATING TEMPERATURE RANGE | -35°C - 85°C        |
| STORAGE TEMPERATURE         | -35°C - 85°C        |
| MAX SOLDERING TEMPERATURE   | 260°C FOR 3 SECONDS |

## NOTES:

- DERATING OF FORWARD CURRENT PER SEGMENT, 0.30mA/°C at T ≥ 25°C
- ACCEPTS BIVAR FLEXIBLE LIGHT PIPE STYLE FLPS2031

## RECOMMENDED SOLDERING PATTERN



| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED ) |         |
|------------------------------------------------------|---------|
| DECIMALS                                             | ANGULAR |
| .X ± .1                                              | X° ± 1° |
| .XX ± .02                                            |         |
| .XXX ± .010                                          |         |



|                               |                          |
|-------------------------------|--------------------------|
| DESIGNED:<br><b>A. Wright</b> | DATE:<br><b>03/13/14</b> |
| CHECKED:<br><b>B. Oliver</b>  | DATE:<br><b>03/13/14</b> |

**BIVAR**®

4 THOMAS, IRVINE, CA. 92618  
TEL.: (949) 951-8808 FAX: (949) 951-3974

**TITLE:**  
SMT FLP VERTICAL ADAPTER, YELLOW

**PART NO:** SMTV01-YXX **REVISION:** E

**CAGE CODE :** 32559 **SHEET #** 1 **OF** 4  
CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING.

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

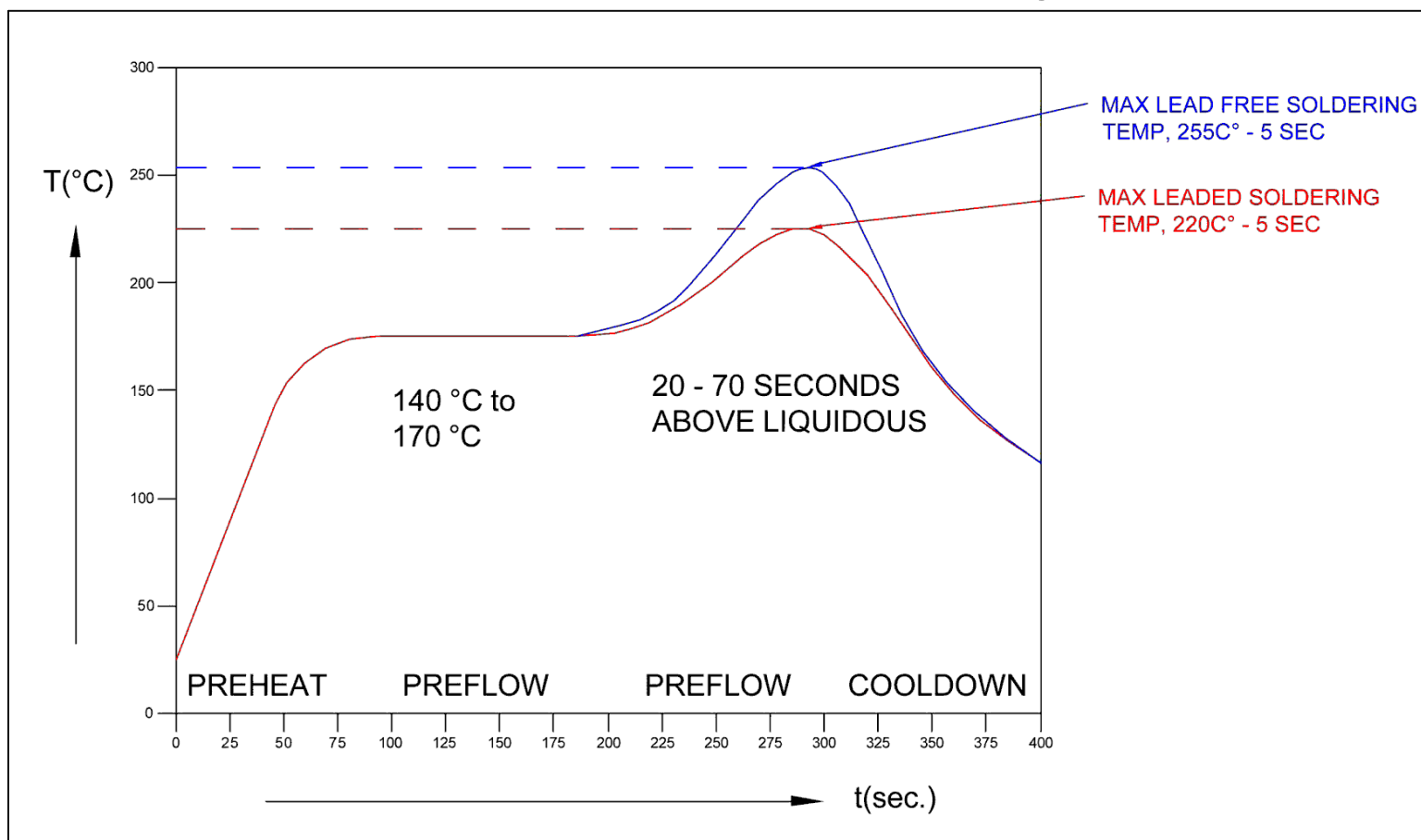
| Part Number | Chip             |                  |     |     | Absolute Maximum Ratings<br>Per Segment |               |                    | Electro-Optical Data<br>@60mA, 25°C |     |     |                |
|-------------|------------------|------------------|-----|-----|-----------------------------------------|---------------|--------------------|-------------------------------------|-----|-----|----------------|
|             | Emitted<br>Color | $\lambda_D$ [nm] |     |     | $P_d$<br>[mW]                           | $I_f$<br>[mA] | Peak $I_f$<br>[mA] | $V_f$<br>[V]                        |     |     | $I_v$<br>[mcd] |
|             |                  | MIN              | TYP | MAX |                                         |               |                    | MIN                                 | TYP | MAX |                |
| SMTV01-Y19  | YELLOW           | -                | 589 | -   | 65                                      | 25            | 100                | 1.8                                 | 2.1 | 2.6 | 190            |
| SMTV01-Y27  |                  |                  |     |     | 65                                      | 25            | 100                |                                     |     |     | 270            |
| SMTV01-Y35  |                  |                  |     |     | 65                                      | 25            | 100                |                                     |     |     | 348            |

Note: 10% Duty Cycle, Pulse Width  $\leq 0.1$  msec for Peak  $I_f$ .

|                                                      |                  |                                                                                                                                                                  |                                                 |
|------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED ) |                  | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL.: (949) 951-8808 FAX: (949) 951-3974 |                                                 |
| DECIMALS                                             | ANGULAR          |                                                                                                                                                                  |                                                 |
| .X $\pm .1$                                          | X° $\pm 1^\circ$ |                                                                             | TITLE:<br>SMT FLP VERTICAL ADAPTER, YELLOW      |
| .XX $\pm .02$                                        |                  |                                                                                                                                                                  | PART NO:    SMTV01-YXX                          |
| .XXX $\pm .010$                                      |                  | DESIGNED:<br><b>A. Wright</b>                                                                                                                                    | REVISION:<br><b>E</b>                           |
|                                                      |                  | CHECKED:<br><b>B. Oliver</b>                                                                                                                                     | CAGE CODE : 32559    SHEET # 2 OF 4             |
|                                                      |                  | DATE: <b>03/13/14</b>                                                                                                                                            | CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING. |
|                                                      |                  | DATE: <b>03/13/14</b>                                                                                                                                            |                                                 |

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

## Recommended Reflow Soldering Profile

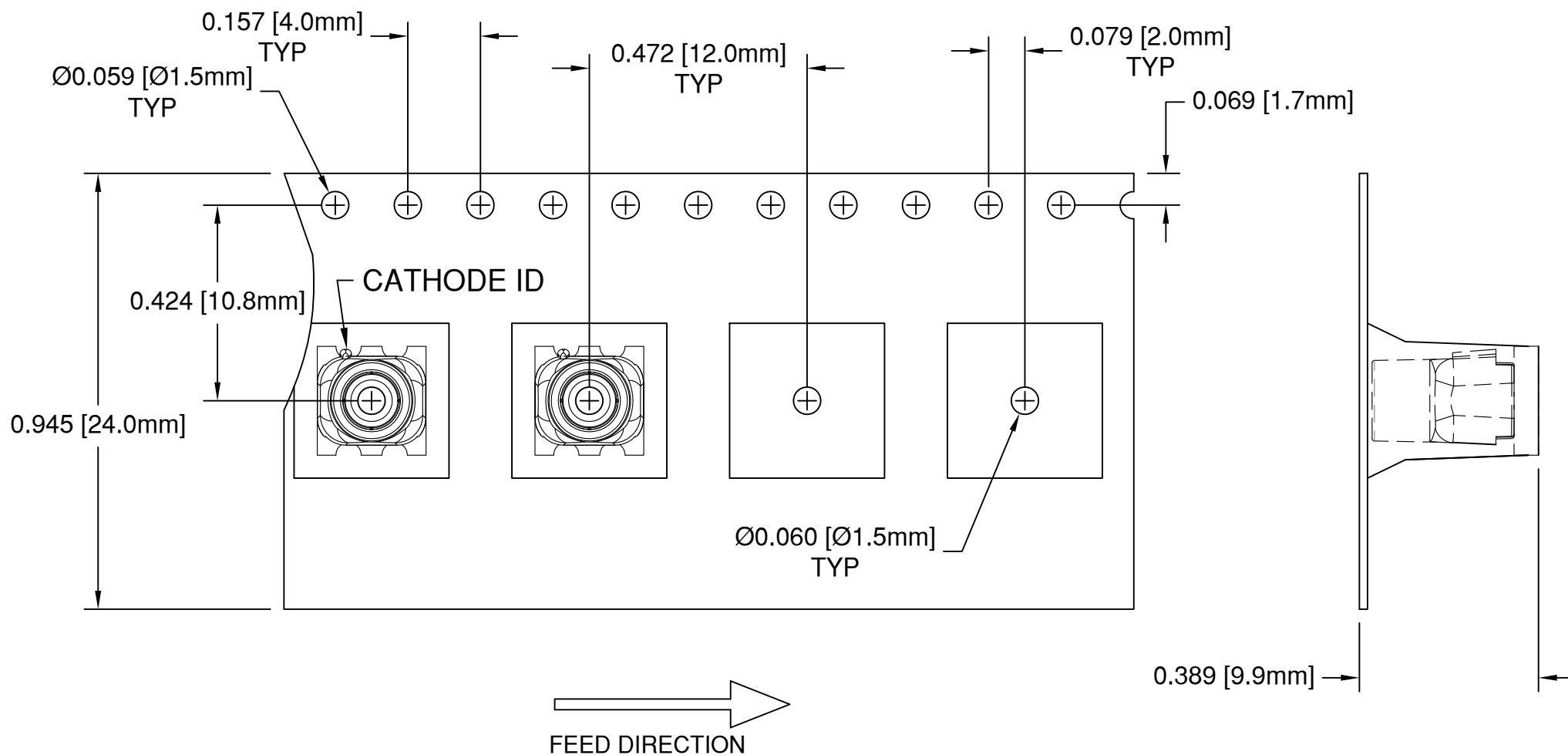


### NOTE:

1. Do not clean after soldering. Only use no-clean solder paste.

|                                                      |                          |                                                                                                                                         |                |
|------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED ) |                          | <b>BIVAR</b> <sup>®</sup><br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974                                     |                |
| <u>DECIMALS</u>                                      | <u>ANGULAR</u>           |                                                                                                                                         |                |
| .X ± .1                                              | X° ± 1°                  |  <b>TITLE:</b><br>SMT FLP VERTICAL ADAPTER, YELLOW |                |
| .XX ± .02                                            |                          |                                                                                                                                         |                |
| .XXX ± .010                                          |                          | <b>PART NO:</b><br>SMTV01-YXX                                                                                                           |                |
| DESIGNED:<br><b>A. Wright</b>                        | DATE:<br><b>03/13/14</b> | REVISION<br><b>E</b>                                                                                                                    |                |
| CHECKED:<br><b>B. Oliver</b>                         | DATE:<br><b>03/13/14</b> | CAGE CODE : <b>32559</b>                                                                                                                | SHEET # 3 OF 4 |
| CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING.      |                          |                                                                                                                                         |                |

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



# NOTES:

3. MOISTURE SENSITIVITY LEVEL: 4

2. UNLESS OTHERWISE SPECIFIED, PACKAGING TO COMPLY WITH EIA-481-D

1. 1000 pcs PER REEL

|                                                      |                                                                                       |                                                                                                          |  |
|------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED ) |                                                                                       | <b>BIVAR</b> <sup>®</sup><br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808      FAX: (949) 951-3974 |  |
| <u>DECIMALS</u>                                      | <u>ANGULAR</u>                                                                        |                                                                                                          |  |
| .X      ± .1                                         | X°    ± 1°                                                                            | <b>TITLE:</b><br>SMT FLP VERTICAL ADAPTER, YELLOW                                                        |  |
| .XX    ± .02                                         |                                                                                       |                                                                                                          |  |
| .XXX   ± .010                                        |  | <b>PART NO:</b> SMTV01-YXX <b>REVISION</b><br>                                                           |  |