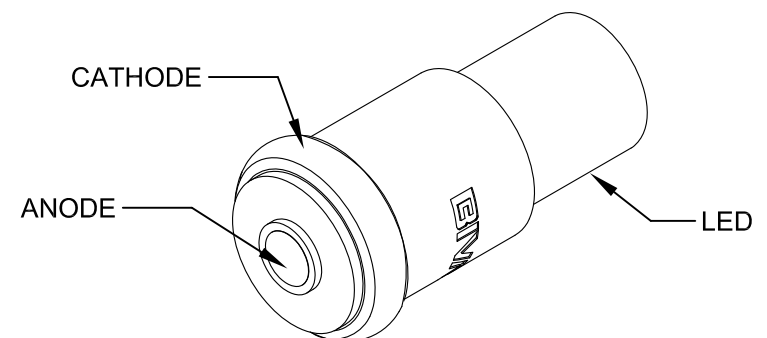
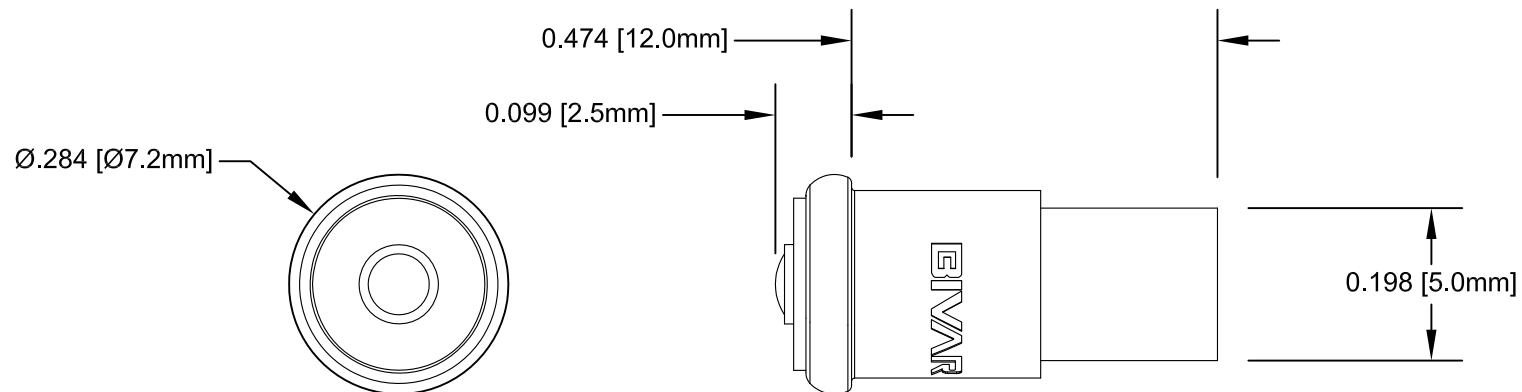


| REV. | DESCRIPTION         | DATE     | APPROVED |
|------|---------------------|----------|----------|
| A    | Engineering Release | 10/21/13 | G. W.    |
|      |                     |          |          |
|      |                     |          |          |
|      |                     |          |          |



# NOTES:

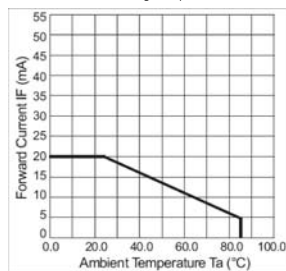
2. DIRECT REPLACEMENT FOR T1  $\frac{3}{4}$  MIDGET FLANGE SX6s BASED LAMPS
1. CENTER CONTACT ANODE

|                                                      |                  |                                                                                                                                            |                          |
|------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED ) |                  | <br>4 THOMAS, IRVINE, CA. 92618                       |                          |
| DECIMALS                                             | ANGULAR          |                                                                                                                                            |                          |
| .X $\pm .1$                                          | X° $\pm 1^\circ$ | <br>TITLE: 206 SERIES INCANDESCENT<br>REPLACEMENT LED |                          |
| .XX $\pm .02$                                        |                  |                                                                                                                                            |                          |
| .XXX $\pm .010$                                      |                  | DESIGNED:<br><b>Alex Wright</b>                                                                                                            | DATE:<br><b>10/21/13</b> |
|                                                      |                  | CHECKED:<br><b>Minh Doan</b>                                                                                                               | DATE:<br><b>10/21/13</b> |
|                                                      |                  | PART NO:<br><b>LFR-206X-XXX</b>                                                                                                            | REVISION:<br><b>A</b>    |
|                                                      |                  | CAGE CODE : <b>32559</b>                                                                                                                   | SHEET # 1 OF 2           |
| CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.      |                  |                                                                                                                                            |                          |

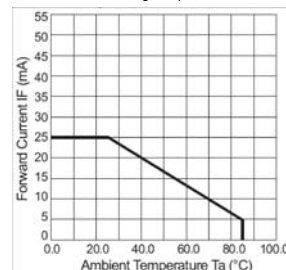
| REV. | DESCRIPTION  | DATE | APPROVED |
|------|--------------|------|----------|
|      | SEE SHEET #1 |      |          |
|      |              |      |          |
|      |              |      |          |
|      |              |      |          |
|      |              |      |          |

## DERATING CURVES

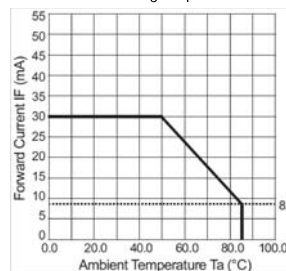
Derating Graph 1



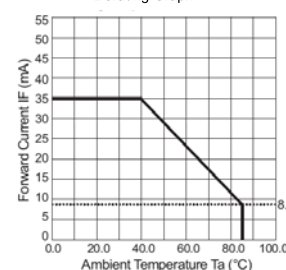
Derating Graph 2



Derating Graph 3



Derating Graph 4



| Bivar Part Number | Wave Length<br>$\lambda_p$ (nm)    | Emitted Color | Lens<br>Appearance | Operating<br>Voltage | Electro-Optical Data |             | Viewing<br>Angle | De-rating<br>Graphs |
|-------------------|------------------------------------|---------------|--------------------|----------------------|----------------------|-------------|------------------|---------------------|
|                   |                                    |               |                    | Vopr<br>(Vdc)        | Current DC<br>(mA)   | Iv<br>(mcd) |                  |                     |
|                   |                                    |               |                    | TYP                  | TYP                  | TYP         |                  |                     |
| LFR-206R12V       | 630                                | RED           | CLEAR              | 12                   | 10                   | 600         | 120              | 1                   |
| LFR-206R28V       | 630                                | RED           | CLEAR              | 28                   | 8                    | 600         | 120              | 1                   |
| LFR-206Y12V       | 585                                | YELLOW        | CLEAR              | 12                   | 10                   | 600         | 120              | 1                   |
| LFR-206Y28V       | 585                                | YELLOW        | CLEAR              | 28                   | 8                    | 600         | 120              | 1                   |
| LFR-206G12V       | 515                                | GREEN         | CLEAR              | 12                   | 10                   | 800         | 120              | 2                   |
| LFR-206G28V       | 515                                | GREEN         | CLEAR              | 28                   | 8                    | 800         | 120              | 2                   |
| LFR-206B12V       | 465                                | BLUE          | CLEAR              | 12                   | 10                   | 230         | 120              | 4                   |
| LFR-206B28V       | 465                                | BLUE          | CLEAR              | 28                   | 8                    | 230         | 120              | 4                   |
|                   |                                    |               |                    |                      |                      |             |                  |                     |
| Bivar Part Number | Chromaticity<br>Coordinates        | Emitted Color | Lens<br>Appearance | Operating<br>Voltage | Electro-Optical Data |             | Viewing<br>Angle | De-rating<br>Graphs |
|                   |                                    |               |                    | Vopr<br>(Vdc)        | Current DC<br>(mA)   | Iv<br>(mcd) |                  |                     |
|                   |                                    |               |                    | TYP                  | TYP                  | TYP         |                  |                     |
| LFR-206WW12V      | X=0.4255~0.4680<br>Y=0.4000~0.4385 | WARM WHITE    | CLEAR              | 12                   | 10                   | 850         | 120              | 3                   |
| LFR-206WW28V      | X=0.4255~0.4680<br>Y=0.4000~0.4385 | WARM WHITE    | CLEAR              | 28                   | 8                    | 850         | 120              | 3                   |
| LFR-206CW12V      | X=0.31<br>Y=0.32                   | COOL WHITE    | CLEAR              | 12                   | 10                   | 1100        | 120              | 3                   |
| LFR-206CW28V      | X=0.31<br>Y=0.32                   | COOL WHITE    | CLEAR              | 28                   | 8                    | 1100        | 120              | 3                   |

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

MAXIMUM POWER DISSIPATION \_\_\_\_\_ 500 mW  
 OPERATING TEMPERATURE RANGE \_\_\_\_\_ -40°C ~ 85°C  
 STORAGE TEMPERATURE \_\_\_\_\_ -40°C ~ 100°C

|                                                      |                                                                                       |                                                                                                                                                                 |                       |
|------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED ) |                                                                                       | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |                       |
| <u>DECIMALS</u> <u>ANGULAR</u>                       |                                                                                       |                                                                                                                                                                 |                       |
|                                                      |  | TITLE: 206 SERIES INCANDESCENT<br>REPLACEMENT LED                                                                                                               |                       |
| DESIGNED:<br><b>Alex Wright</b>                      | DATE:<br><b>10/21/13</b>                                                              | PART NO:<br><b>LFR-206X-XXX</b>                                                                                                                                 | REVISION:<br><b>A</b> |
| CHECKED:<br><b>Minh Doan</b>                         | DATE:<br><b>10/21/13</b>                                                              | CAGE CODE : <b>32559</b>                                                                                                                                        | SHEET # 2 OF 2        |
| CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.      |                                                                                       |                                                                                                                                                                 |                       |

# Mouser Electronics

Authorized Distributor

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## BIVAR:

[LFR-206G28V](#) [LFR-206G12V](#) [LFR-206B28V](#) [LFR-206CW28V](#) [LFR-206WW28V](#) [LFR-206Y28V](#) [LFR-206WW12V](#)  
[LFR-206B12V](#) [LFR-206Y12V](#) [LFR-206CW12V](#) [LFR-206R12V](#) [LFR-206R28V](#)