

| 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 ± .1  | X° ± 1°                  |                                 | TITLE: 206 SERIES INCANDESCENT REPLACEMENT LED |
| .XX ± .02  |                          |  | PART NO: LFR-206X-XXX                          |
| .XXX ± .010  |                          |  | CAGE CODE : 32559 SHEET # 1 OF 2               |
| DESIGNED:<br><b>Alex Wright</b>                      | DATE:<br><b>10/21/13</b> | REVISION:<br><b>A</b>  |  |
| CHECKED:<br><b>Minh Doan</b>                         | DATE:<br><b>10/21/13</b> | CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.  |  |

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|      | SEE SHEET #1 |      |          |
|      |              |      |          |
|      |              |      |          |
|      |              |      |          |

## DERATING CURVES

Derating Graph 1



Derating Graph 2



Derating Graph 3



Derating Graph 4



| Bivar Part Number | Wave Length λp(nm)                 | Emitted Color | Lens Appearance | Operating Voltage | Electro-Optical Data |          | Viewing Angle | De-rating Graphs |
|-------------------|------------------------------------|---------------|-----------------|-------------------|----------------------|----------|---------------|------------------|
|                   |                                    |               |                 | Vopr (Vdc)        | Current DC (mA)      | Iv (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 Coordinates           | Emitted Color | Lens Appearance | Operating Voltage | Electro-Optical Data |          | Viewing Angle | De-rating Graphs |
|                   |                                    |               |                 | Vopr (Vdc)        | Current DC (mA)      | Iv (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><b>BIVAR</b> <sup>®</sup><br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |                                  |
| DECIMALS                      ANGULAR   |  |  |                                  |
|  |  | TITLE: 206 SERIES INCANDESCENT REPLACEMENT LED   |                                  |
|   |  | 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>   | CAGE CODE : 32559 SHEET # 2 OF 2 |
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