

# STANDARD LED LAMPS(RECTANGULAR TYPES)

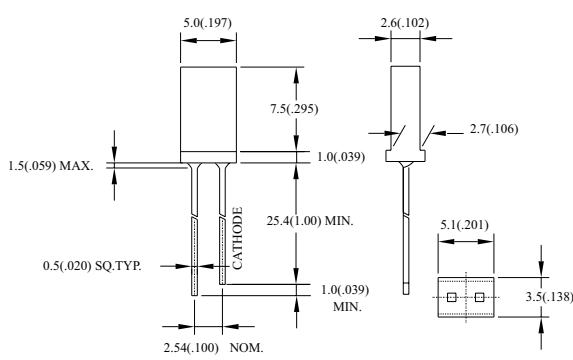
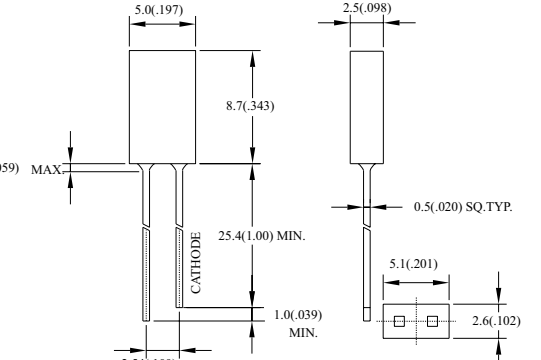
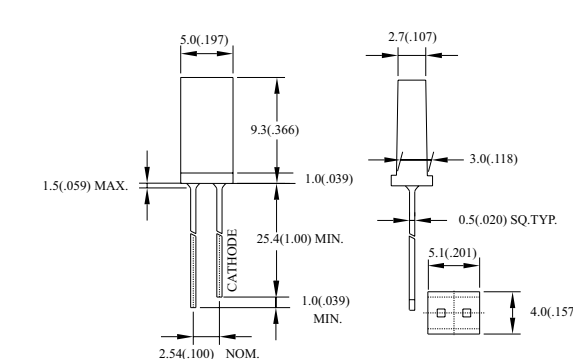
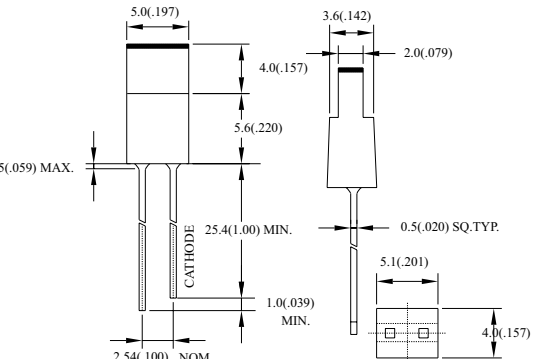
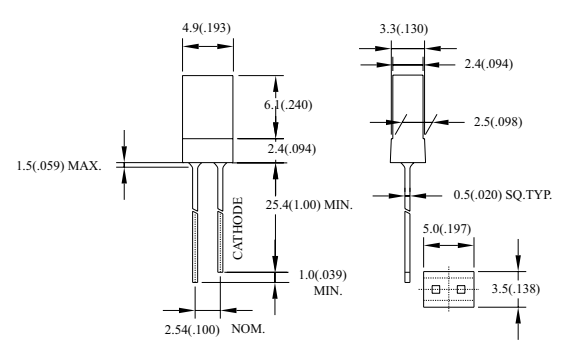
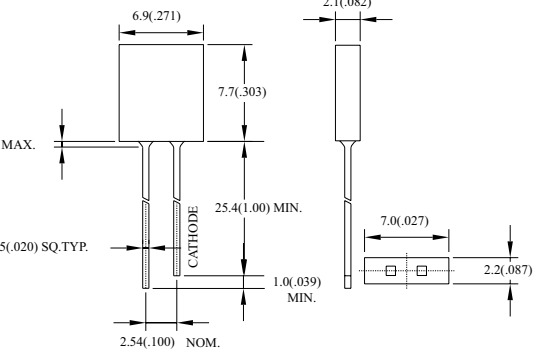
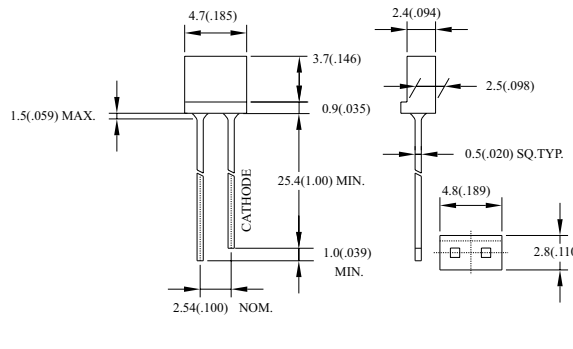
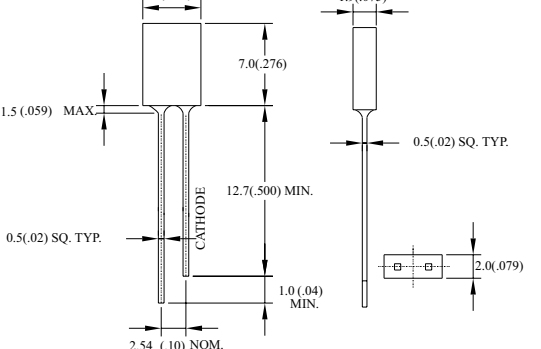
| Package                                       | Part No.          | Chip                    |                             | Lens Appearance | Absolute Maximum Ratings |            |            |              | Electro-optical Data(At 20mA) |     |             | Viewing Angle<br>2 θ 1/2<br>(deg) | Drawing No. |
|-----------------------------------------------|-------------------|-------------------------|-----------------------------|-----------------|--------------------------|------------|------------|--------------|-------------------------------|-----|-------------|-----------------------------------|-------------|
|                                               |                   | Material/ Emitted Color | Peak Wave Length<br>λ p(nm) |                 | Δ λ<br>(nm)              | Pd<br>(mw) | If<br>(mA) | Peak<br>(mA) | Vf<br>(V)                     |     | Iv<br>(mcd) |                                   |             |
|                                               |                   |                         |                             |                 |                          |            |            |              | Typ                           | Max | Typ.        |                                   |             |
| 2.6x5.0x<br>8.5mm<br>1.0" Lead<br>Rectangular | BL-R1132D         | GaAsP/GaAs/ Red         | 655                         | Red Diffused    | 40                       | 80         | 40         | 200          | 1.7                           | 2.0 | 0.6         | 130                               | L-073       |
|                                               | BL-R5132D         | GaP/GaP/ Bright Red     | 700                         |                 | 90                       | 40         | 15         | 50           | 2.2                           | 2.6 | 1.0         |                                   |             |
|                                               | BL-R4532D         | GaAsP/GaP/ Hi-Eff Red   | 635                         |                 | 45                       | 80         | 30         | 150          | 2.0                           | 2.6 | 7.0         |                                   |             |
|                                               | BL-R2132D         | GaP/GaP/ Green          | 568                         | Green Diffused  | 30                       | 80         | 30         | 150          | 2.2                           | 2.6 | 7.0         |                                   |             |
|                                               | BL-R3132D         | GaAsP/GaP/ Yellow       | 585                         | Yellow Diffused | 35                       | 80         | 30         | 150          | 2.1                           | 2.6 | 6.0         |                                   |             |
|                                               | BL-R4132D         | GaAsP/GaP/ Orange       | 635                         | Orange Diffused | 45                       | 80         | 30         | 150          | 2.0                           | 2.6 | 7.0         |                                   |             |
|                                               | BL-R9132D         | GaP/GaP/ Pure Green     | 555                         | Green Diffused  | 25                       | 80         | 30         | 150          | 2.2                           | 2.6 | 0.5         |                                   |             |
| 2.5x5.0x<br>8.7mm<br>1.0" Lead<br>Rectangular | BL-R1132E         | GaAsP/GaAs/ Red         | 655                         | Red Diffused    | 40                       | 80         | 40         | 200          | 1.7                           | 2.0 | 0.5         | 130                               | L-074       |
|                                               | BL-R5132E         | GaP/GaP/ Bright Red     | 700                         |                 | 90                       | 40         | 15         | 50           | 2.2                           | 2.6 | 0.8         |                                   |             |
|                                               | BL-R4532E         | GaAsP/GaP/ Hi-Eff Red   | 635                         |                 | 45                       | 80         | 30         | 150          | 2.0                           | 2.6 | 7.0         |                                   |             |
|                                               | BL-R2132E         | GaP/GaP/ Green          | 568                         | Green Diffused  | 30                       | 80         | 30         | 150          | 2.2                           | 2.6 | 7.0         |                                   |             |
|                                               | BL-R3132E         | GaAsP/GaP / Yellow      | 585                         | Yellow Diffused | 35                       | 80         | 30         | 150          | 2.1                           | 2.6 | 6.0         |                                   |             |
|                                               | BL-R4132E         | GaAsP/GaP / Orange      | 635                         | Orange Diffused | 45                       | 80         | 30         | 150          | 2.0                           | 2.6 | 7.0         |                                   |             |
|                                               | BL-R9132E         | GaP/GaP/ Pure Green     | 555                         | Green Diffused  | 25                       | 80         | 30         | 150          | 2.2                           | 2.6 | 0.5         |                                   |             |
| 3.0x5.0x<br>10mm<br>1.0" Lead<br>Rectangular  | BL-R1132F         | GaAsP/GaAs/ Red         | 655                         | Red Diffused    | 40                       | 80         | 40         | 200          | 1.7                           | 2.0 | 0.8         | 125                               | L-075       |
|                                               | BL-R5132F         | GaP/GaP/ Bright Red     | 700                         |                 | 90                       | 40         | 15         | 50           | 2.2                           | 2.6 | 1.2         |                                   |             |
|                                               | BL-R4132F         | GaAsP/GaP/ Hi-Eff Red   | 635                         |                 | 45                       | 80         | 30         | 150          | 2.0                           | 2.6 | 5.0         |                                   |             |
|                                               | BL-R2132F         | GaP/GaP/ Green          | 568                         | Green Diffused  | 30                       | 80         | 30         | 150          | 2.2                           | 2.6 | 5.0         |                                   |             |
|                                               | BL-R3132F         | GaAsP/GaP / Yellow      | 585                         | Yellow Diffused | 35                       | 80         | 30         | 150          | 2.1                           | 2.6 | 4.5         |                                   |             |
|                                               | BL-R8132F         | GaAsP/GaP/ Amber        | 610                         | Orange Diffused | 35                       | 80         | 30         | 150          | 2.0                           | 2.6 | 4.5         |                                   |             |
|                                               | BL-R9132F         | GaP/GaP / Pure Green    | 555                         | Green Diffused  | 25                       | 80         | 30         | 150          | 2.2                           | 2.6 | 0.8         |                                   |             |
| 2.0x5.0x<br>7.8mm<br>1.0" Lead<br>Rectangular | BL-R1132H         | GaAsP/GaAs/ Red         | 655                         | Red Diffused    | 40                       | 80         | 40         | 200          | 1.7                           | 2.0 | 0.8         | 125                               | L-076       |
|                                               | BL-R5132H         | GaP/GaP/ Bright Red     | 700                         |                 | 90                       | 40         | 15         | 50           | 2.2                           | 2.6 | 1.6         |                                   |             |
|                                               | BL-R4532H         | GaAsP/GaP/ Hi-Eff Red   | 635                         |                 | 45                       | 80         | 30         | 150          | 2.0                           | 2.6 | 5.0         |                                   |             |
|                                               | BL-R2132H         | GaP/GaP/ Green          | 568                         | Green Diffused  | 30                       | 80         | 30         | 150          | 2.2                           | 2.6 | 5.0         |                                   |             |
|                                               | BL-R3132H         | GaAsP/GaP / Yellow      | 585                         | Yellow Diffused | 35                       | 80         | 30         | 150          | 2.1                           | 2.6 | 4.5         |                                   |             |
|                                               | BL-R4132H         | GaAsP/GaP / Orange      | 635                         | Orange Diffused | 25                       | 80         | 30         | 150          | 2.0                           | 2.6 | 5.0         |                                   |             |
|                                               | BL-R9132H         | GaP/GaP/ Pure Green     | 555                         | Green Diffused  | 30                       | 80         | 30         | 150          | 2.2                           | 2.6 | 0.8         |                                   |             |
| 2.4x5.0x<br>8.4mm<br>1.0" Lead<br>Rectangular | BL-R1132J         | GaAsP/GaAs/ Red         | 655                         | Red Diffused    | 40                       | 80         | 40         | 200          | 1.7                           | 2.0 | 0.6         | 125                               | L-077       |
|                                               | BL-R5132J         | GaP/GaP/ Bright Red     | 700                         |                 | 90                       | 40         | 15         | 50           | 2.2                           | 2.6 | 1.0         |                                   |             |
|                                               | BL-R4532J         | GaAsP/GaP/ Hi-Eff Red   | 635                         |                 | 45                       | 80         | 30         | 150          | 2.0                           | 2.6 | 6.0         |                                   |             |
|                                               | BL-R2132J         | GaP/ GaP Green          | 568                         | Green Diffused  | 30                       | 80         | 30         | 150          | 2.2                           | 2.6 | 6.0         |                                   |             |
|                                               | BL-R3132J         | GaAsP/GaP / Yellow      | 585                         | Yellow Diffused | 35                       | 80         | 30         | 150          | 2.1                           | 2.6 | 5.0         |                                   |             |
|                                               | BL-R4132J         | GaAsP/GaP / Orange      | 635                         | Orange Diffused | 25                       | 80         | 30         | 150          | 2.0                           | 2.6 | 6.0         |                                   |             |
|                                               | BL-R9132J         | GaP/GaP / Pure Green    | 555                         | Green Diffused  | 30                       | 80         | 30         | 150          | 2.2                           | 2.6 | 0.6         |                                   |             |
| 2.1x6.9x<br>7.7mm<br>1.0" Lead<br>Rectangular | BL-R1132K         | GaAsP/GaAs/ Red         | 655                         | Red Diffused    | 40                       | 80         | 40         | 200          | 1.7                           | 2.0 | 0.6         | 125                               | L-078       |
|                                               | BL-R5132K         | GaP/GaP/ Bright Red     | 700                         |                 | 90                       | 40         | 15         | 50           | 2.2                           | 2.6 | 1.0         |                                   |             |
|                                               | BL-R4532K         | GaAsP/GaP/ Hi-Eff Red   | 635                         |                 | 45                       | 80         | 30         | 150          | 2.0                           | 2.6 | 7.0         |                                   |             |
|                                               | BL-R2132K         | GaP/ GaP Green          | 568                         | Green Diffused  | 30                       | 80         | 30         | 150          | 2.2                           | 2.6 | 7.0         |                                   |             |
|                                               | BL-R3132K         | GaAsP/ GaP/ Yellow      | 585                         | Yellow Diffused | 35                       | 80         | 30         | 150          | 2.1                           | 2.6 | 6.0         |                                   |             |
|                                               | BL-R4132K         | GaAsP/GaP/ Orange       | 635                         | Orange Diffused | 45                       | 80         | 30         | 150          | 2.0                           | 2.6 | 7.0         |                                   |             |
|                                               | BL-R9132K         | GaP/GaP / Pure Green    | 555                         | Green Diffused  | 25                       | 80         | 30         | 150          | 2.2                           | 2.6 | 0.6         |                                   |             |
| 2.4x4.8x<br>4.6mm<br>1.0" Lead<br>Rectangular | BL-R1132L         | GaAsP/GaAs/ Red         | 655                         | Red Diffused    | 40                       | 80         | 40         | 200          | 1.7                           | 2.0 | 0.4         | 125                               | L-079       |
|                                               | BL-R5132L         | GaP/GaP/ Bright Red     | 700                         |                 | 90                       | 40         | 15         | 50           | 2.2                           | 2.6 | 0.6         |                                   |             |
|                                               | BL-R4532L         | GaAsP/GaP/ Hi-Eff Red   | 635                         |                 | 45                       | 80         | 30         | 150          | 2.0                           | 2.6 | 4.0         |                                   |             |
|                                               | BL-R2132L         | GaP/GaP/ Green          | 568                         | Green Diffused  | 30                       | 80         | 30         | 150          | 2.2                           | 2.6 | 4.0         |                                   |             |
|                                               | BL-R3132L         | GaAsP/GaP/ Yellow       | 585                         | Yellow Diffused | 35                       | 80         | 30         | 150          | 2.1                           | 2.6 | 3.0         |                                   |             |
| BL-R4132L                                     | GaAsP/GaP/ Orange | 635                     | Orange Diffused             | 25              | 80                       | 30         | 150        | 2.0          | 2.6                           | 0.6 |             |                                   |             |
| 2.0x5.0x<br>7.0mm<br>0.5" Lead<br>Rectangular | BL-R1122N         | GaAsP/GaAs/ Red         | 655                         | Red Diffused    | 40                       | 80         | 40         | 200          | 1.7                           | 2.0 | 0.5         | 140                               | L-080       |
|                                               | BL-R5122N         | GaP/GaP/ Bright Red     | 700                         |                 | 90                       | 40         | 15         | 50           | 2.2                           | 2.6 | 0.7         |                                   |             |
|                                               | BL-R4522N         | GaAsP/GaP/ Hi-Eff Red   | 635                         |                 | 45                       | 80         | 30         | 150          | 2.0                           | 2.6 | 4.5         |                                   |             |
|                                               | BL-R2122N         | GaP/GaP/ Green          | 568                         | Green Diffused  | 30                       | 80         | 30         | 150          | 2.2                           | 2.6 | 4.5         |                                   |             |
|                                               | BL-R3122N         | GaAsP/GaP / Yellow      | 585                         | Yellow Diffused | 35                       | 80         | 30         | 150          | 2.1                           | 2.6 | 3.5         |                                   |             |

Remark : 1.Hi-Eff Red / High-Efficiency Red.

2.Trans / Transparent.

3.2 θ 1/2 The off-axis angle at which the luminous intensity is half the axial luminous intensity.

# STANDARD LED LAMPS(RECTANGULAR TYPES)

|                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>L-073 BL-Rxx32D Series</b></p>  <p>5.0(.197)<br/>2.6(.102)<br/>7.5(.295)<br/>1.5(.059) MAX.<br/>1.0(.039)<br/>25.4(1.00) MIN.<br/>0.5(.020) SQ.TYP.<br/>CATHODE<br/>2.54(.100) NOM.<br/>2.7(.106)<br/>5.1(.201)<br/>3.5(.138)</p>                 | <p><b>L-074 BL-Rxx32E Series</b></p>  <p>5.0(.197)<br/>2.5(.098)<br/>8.7(.343)<br/>1.5(.059) MAX.<br/>0.5(.020) SQ.TYP.<br/>25.4(1.00) MIN.<br/>1.0(.039) MIN.<br/>2.54(.100) NOM.<br/>5.1(.201)<br/>2.6(.102)</p>                |
| <p><b>L-075 BL-Rxx32F Series</b></p>  <p>5.0(.197)<br/>2.7(.107)<br/>9.3(.366)<br/>1.5(.059) MAX.<br/>1.0(.039)<br/>25.4(1.00) MIN.<br/>0.5(.020) SQ.TYP.<br/>CATHODE<br/>2.54(.100) NOM.<br/>3.0(.118)<br/>5.1(.201)<br/>4.0(.157)</p>                | <p><b>L-076 BL-Rxx32H Series</b></p>  <p>5.0(.197)<br/>3.6(.142)<br/>4.0(.157)<br/>1.5(.059) MAX.<br/>5.6(.220)<br/>25.4(1.00) MIN.<br/>1.0(.039) MIN.<br/>2.54(.100) NOM.<br/>0.5(.020) SQ.TYP.<br/>5.1(.201)<br/>4.0(.157)</p> |
| <p><b>L-077 BL-Rxx32J Series</b></p>  <p>4.9(.193)<br/>3.3(.130)<br/>6.1(.240)<br/>1.5(.059) MAX.<br/>2.4(.094)<br/>25.4(1.00) MIN.<br/>0.5(.020) SQ.TYP.<br/>CATHODE<br/>2.54(.100) NOM.<br/>2.4(.094)<br/>2.5(.098)<br/>5.0(.197)<br/>3.5(.138)</p> | <p><b>L-078 BL-Rxx32K Series</b></p>  <p>6.9(.271)<br/>2.1(.082)<br/>7.7(.303)<br/>1.5(.059) MAX.<br/>0.5(.020) SQ.TYP.<br/>25.4(1.00) MIN.<br/>1.0(.039) MIN.<br/>2.54(.100) NOM.<br/>7.0(.027)<br/>2.2(.087)</p>              |
| <p><b>L-079 BL-Rxx32L Series</b></p>  <p>4.7(.185)<br/>2.4(.094)<br/>3.7(.146)<br/>1.5(.059) MAX.<br/>0.9(.035)<br/>25.4(1.00) MIN.<br/>0.5(.020) SQ.TYP.<br/>CATHODE<br/>2.54(.100) NOM.<br/>2.5(.098)<br/>4.8(.189)<br/>2.8(.110)</p>               | <p><b>L-080 BL-Rxx22N Series</b></p>  <p>5.0(.197)<br/>1.9(.075)<br/>7.0(.276)<br/>1.5(.059) MAX.<br/>0.5(.02) SQ. TYP.<br/>12.7(.500) MIN.<br/>1.0(.04) MIN.<br/>2.54(.10) NOM.<br/>0.5(.02) SQ. TYP.<br/>2.0(.079)</p>        |

Notes : 1.All Dimensions are in millimeters (inches).  
2.Tolerance is  $\pm 0.25\text{mm}$  (.010").