

| REV. | DESCRIPTION | DATE | APPROVED |
|------|----------------------|----------|----------|
| A | Engineering Release. | 09/23/04 | M. C. |
| B | Production Release. | 11/17/04 | M. C. |
| C | Added Warm White WW. | 11/30/04 | M. C. |
| | | | |
| | | | |

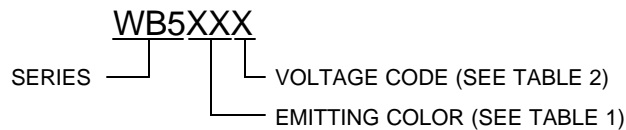
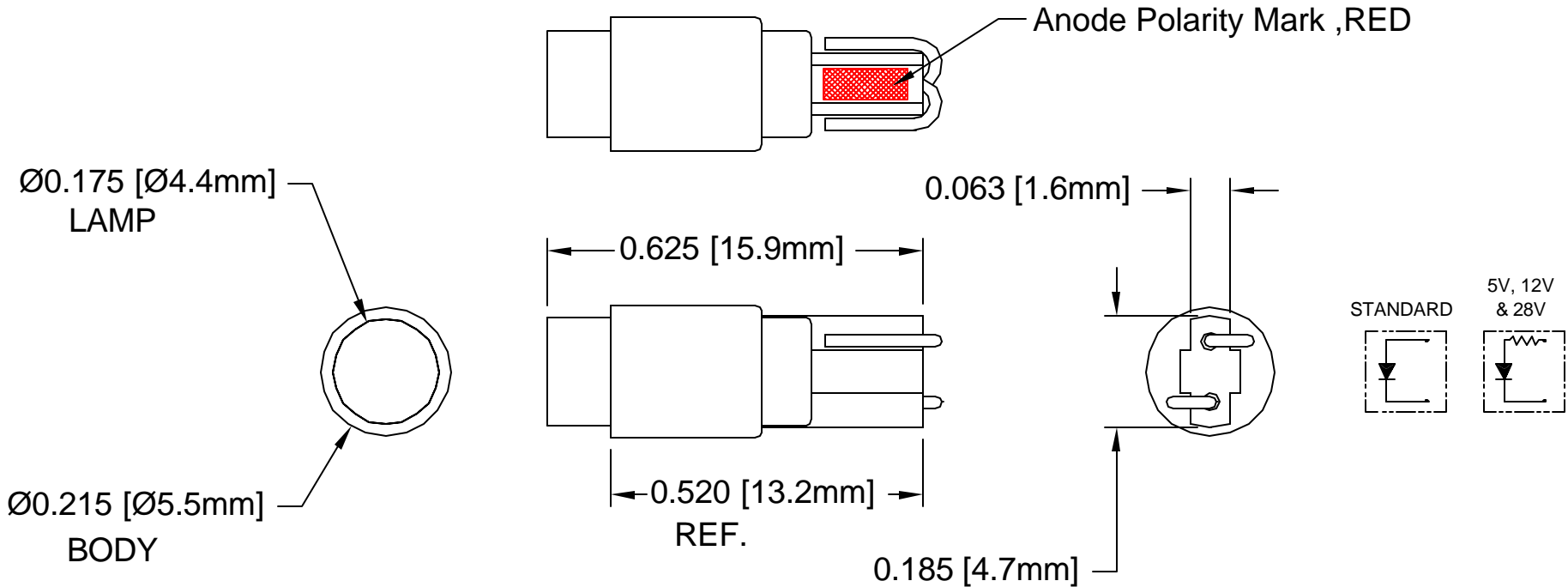


TABLE 1

| Color | Color Code |
|--------------|------------|
| Blue | UB |
| Green | UG |
| Super Red | SR |
| Ultra Red | UR |
| Ultra White | UW |
| Warm White | WW |
| Super Yellow | SY |
| Ultra Yellow | UY |

TABLE 2

| Voltage | Voltage Code |
|----------|--------------|
| Standard | 1 |
| 5V | 2 |
| 12V | 3 |
| 28V | 6 |



ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

| | | |
|--|-------|---------------------|
| REVERSE VOLTAGE | _____ | 5V |
| REVERSE CURRENT (VR=5V) | _____ | 50µA |
| 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) | | 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974 | |
| DECIMALS | ANGULAR | | |
| .X ± .1 | X° ± 1° | | |
| .XX ± .02 | | TITLE: WEDGE BASE 5mm ASSEMBLY | |
| .XXX ± .010 | | | |
| DESIGNED: | DATE: | PART NO: WB5XXX | REVISION: C |
| David Green | 09/23/04 | | |
| CHECKED: | DATE: | CAGE CODE : 32559 | SHEET # 1 OF 2 |
| M. Chen | 11/17/04 | CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING. | |

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

| LED Part No. | Chip | | | Lens Appearance | Absolute Max. Ratings | | | | Electro-Optical Data | | | Viewing Angle 2θ ½ (Deg) | | | | | | |
|-----------------|--------------|-------------------------|---------------|-----------------|-----------------------|--------------------|------------|-----------------|----------------------|-----|-------------|--------------------------------|---|----|-----|-----|----|-----|
| | Material | Wave Length λ D (nm) | Emitted Color | | Δλ (nm) | Pd (mW) | If (mA) | Peak If (mA) | Vf (V) | | Iv (mcd) | | | | | | | |
| | | | | | | | | | TYP | MAX | TYP | | | | | | | |
| STANDARD | | | | | Data @ 20 mA | | | | | | | | | | | | | |
| WB5UB1 | InGaN | 468 | ULTRA BLUE | WATER CLEAR | 25 | 120 | 20 | 100 | 3.2 | 4.0 | 190 | 120 | | | | | | |
| WB5UG1 | | 525 | ULTRA GREEN | | 30 | 120 | | | 3.2 | 4.0 | 600 | | | | | | | |
| WB5SY1 | AlGaInP/GaAs | 590 | SUPER YELLOW | | 20 | 80 | | | 1.9 | 2.4 | 200 | | | | | | | |
| WB5UY1 | | | ULTRA YELLOW | | 20 | 80 | | | 2.2 | 2.6 | 300 | | | | | | | |
| WB5SR1 | AlInGaP/GaAs | 630 | SUPER RED | | 20 | 80 | | | 1.8 | 2.4 | 130 | | | | | | | |
| WB5UR1 | | | ULTRA RED | | 20 | 120 | | | 2.2 | 2.6 | 185 | | | | | | | |
| WB5UW1 | InGaN | X=0.30 Y=0.29 | ULTRA WHITE | | - | 120 | | | 3.2 | 4.0 | 300 | | | | | | | |
| WB5WW1 | InGaN | X=0.41 Y=0.43 | WARM WHITE | | - | 120 | | | 3.2 | 4.0 | 300 | | | | | | | |
| 5 Volt | | | | | Data @ 5V | | | | | | | | | | | | | |
| WB5UB2 | InGaN | 468 | ULTRA BLUE | | WATER CLEAR | 25 | | | 100 | 20 | 100 | | - | 5 | 190 | 120 | | |
| WB5UG2 | | 525 | ULTRA GREEN | 30 | | 600 | | | | | | | | | | | | |
| WB5SY2 | AlGaInP/GaAs | 590 | SUPER YELLOW | 20 | | 200 | | | | | | | | | | | | |
| WB5UY2 | | | ULTRA YELLOW | 20 | | 300 | | | | | | | | | | | | |
| WB5SR2 | AlInGaP/GaAs | 630 | SUPER RED | 20 | | 130 | | | | | | | | | | | | |
| WB5UR2 | | | ULTRA RED | 20 | | 185 | | | | | | | | | | | | |
| WB5UW2 | InGaN | X=0.30 Y=0.29 | ULTRA WHITE | - | | 300 | | | | | | | | | | | | |
| WB5WW2 | InGaN | X=0.41 Y=0.43 | WARM WHITE | - | | 300 | | | | | | | | | | | | |
| 12 Volt | | | | | | Data @ 12 V | | | | | | | | | | | | |
| WB5UB3 | InGaN | 468 | ULTRA BLUE | WATER CLEAR | | 25 | 240 | 20 | | | | 100 | | | - | | 12 | 190 |
| WB5UG3 | | 525 | ULTRA GREEN | | 30 | 600 | | | | | | | | | | | | |
| WB5SY3 | AlGaInP/GaAs | 590 | SUPER YELLOW | | 20 | 200 | | | | | | | | | | | | |
| WB5UY3 | | | ULTRA YELLOW | | 20 | 300 | | | | | | | | | | | | |
| WB5SR3 | AlInGaP/GaAs | 630 | SUPER RED | | 20 | 130 | | | | | | | | | | | | |
| WB5UR3 | | | ULTRA RED | | 20 | 185 | | | | | | | | | | | | |
| WB5UW3 | InGaN | X=0.30 Y=0.29 | ULTRA WHITE | | - | 300 | | | | | | | | | | | | |
| WB5WW3 | InGaN | X=0.41 Y=0.43 | WARM WHITE | | - | 300 | | | | | | | | | | | | |
| 28 Volt | | | | | Data @ 28 V | | | | | | | | | | | | | |
| WB5UB6 | InGaN | 468 | ULTRA BLUE | | WATER CLEAR | 25 | | | 560 | 20 | 100 | | - | 28 | | 190 | | 120 |
| WB5UG6 | | 525 | ULTRA GREEN | 30 | | 600 | | | | | | | | | | | | |
| WB5SY6 | AlGaInP/GaAs | 590 | SUPER YELLOW | 20 | | 200 | | | | | | | | | | | | |
| WB5UY6 | | | ULTRA YELLOW | 20 | | 300 | | | | | | | | | | | | |
| WB5SR6 | AlInGaP/GaAs | 630 | SUPER RED | 20 | | 130 | | | | | | | | | | | | |
| WB5UR6 | | | ULTRA RED | 20 | | 185 | | | | | | | | | | | | |
| WB5UW6 | InGaN | X=0.30 Y=0.29 | ULTRA WHITE | - | | 300 | | | | | | | | | | | | |
| WB5WW6 | InGaN | X=0.41 Y=0.43 | WARM WHITE | - | | 300 | | | | | | | | | | | | |

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|---|--------------------------|---|-----------------------|
| STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) ±10% ALL VALUES | | ANGULAR X° ±5° | |
|  | |  | |
| | | 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974 | |
| DESIGNED: David Green | DATE: 09/23/04 | TITLE: WEDGE BASE 5mm ASSEMBLY | |
| CHECKED: T. Yin | DATE: 09/23/04 | PART NO: WB5XXX | REVISION: C |
| CAGE CODE : 32559 | | SHEET # 2 OF 2 | |
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