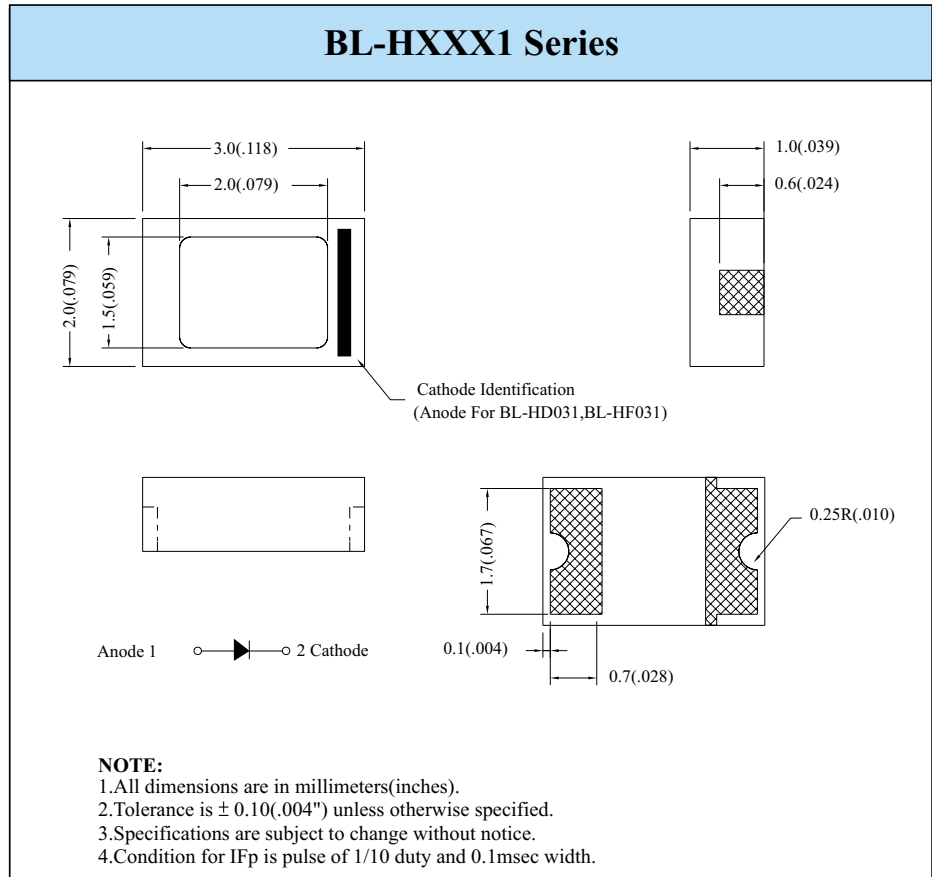




STANDARD CHIP LED LAMPS



Absolute Maximum Ratings (Ta=25°C)

| | UNIT | SPEC. |
|----------------|------|---------|
| IF | mA | 30 |
| IFp | mA | 100 |
| V _R | V | 5 |
| IR | uA | 100 |
| Top | °C | -25~+80 |
| Tstg | °C | -30~+85 |

| Part No. | Chip | | | | Lens Appearance | Electro-optical Data (At 20mA) | | | | Viewing Angle 2θ 1/2 (deg) |
|----------|---------------|---------------|----------|----------|-----------------|--------------------------------|------|----------------------|------|----------------------------|
| | Material | Emitted Color | λ P (nm) | Δ λ (nm) | | V _f (V) | | I _v (mcd) | | |
| | | | | | | Typ. | Max. | Min. | Typ. | |
| BL-HH031 | GaP/GaP | Bright Red | 700 | 90 | Water Clear | 2.3 | 2.6 | 1.0 | 3.5 | 125 |
| BL-HG031 | GaP/GaP | Green | 568 | 30 | | 2.1 | 2.6 | 6.0 | 18.0 | |
| BL-HX031 | GaP/GaP | Hi-Eff Green | 568 | 30 | | 2.0 | 2.6 | 8.0 | 25.0 | |
| BL-HW031 | GaP/GaP | Pure Green | 555 | 25 | | 2.2 | 2.6 | 0.6 | 1.8 | |
| BL-HY031 | GaAsP/GaP | Yellow | 585 | 35 | | 2.1 | 2.6 | 4.0 | 12.0 | |
| BL-HE131 | GaAsP/GaP | Hi-Eff Red | 635 | 45 | | 1.9 | 2.6 | 4.5 | 14.0 | |
| BL-HD031 | GaAlAs/GaAs | Super Red | 660 | 20 | | 1.7 | 2.6 | 16.0 | 50.0 | |
| BL-HF031 | GaAlAs/GaAlAs | Ultra Red | 660 | 20 | | 2.0 | 2.6 | 18.0 | 55.0 | |
| BL-HJ031 | AlGaInP | Super Orange | 620 | 17 | | 2.0 | 2.6 | 20.0 | 60.0 | |
| BL-HK031 | AlGaInP | Super Yellow | 588 | 15 | | 2.0 | 2.6 | 20.0 | 60.0 | |