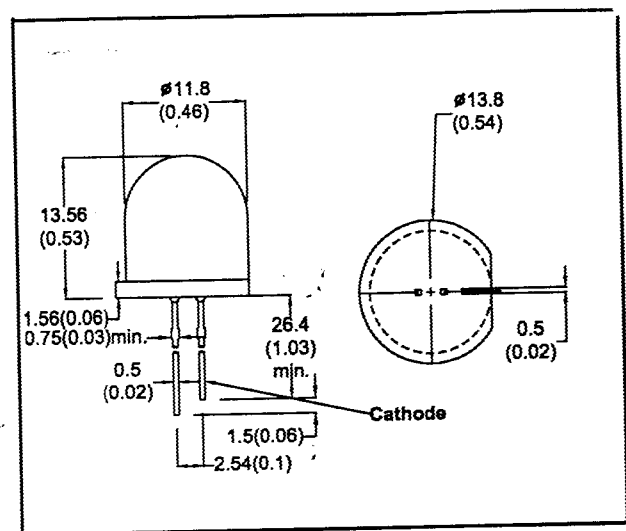


DESCRIPTION

MSB120DA-B is ultra high brightness output AlGaInP LED lamp encapsulated in a 12mm diameter large package, red diffused lens with 3 brightness grouping is provided for customer's selection.



- All dimension in mm(inch)
- No Scale
- Tol. : +/-0.3mm

ABSOLUTE MAXIMUM RATINGS

Power Dissipation @ $T_a=25^{\circ}\text{C}$
Forward Current, DC (IF)
Reverse Voltage
Operating & Storage Temperature Range
Lead Soldering Temperature (1/16" form body)

100mW
40mA
5V
-55 to +100°C
260°C for 5 sec.

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNIT | CONDITIONS |
|---------------------------|-----------------|-----|-----|-----|--------|------------|
| Forward Voltage | VF | | 1.9 | 2.6 | V | IF=20mA |
| Reverse Breakdown Voltage | BVR | 5 | | | V | IR=100μA |
| Luminous Intensity | IV | | | | | |
| MSB120DA-3B | | 20 | 30 | | mcd | IF=20mA |
| MSB120DA-4B | | 30 | 40 | | mcd | IF=20mA |
| MSB120DA-5B | | 40 | 50 | | mcd | IF=20mA |
| Peak Wavelength | λ_p | | 645 | | nm | IF=20mA |
| Spectral Line Half Width | $\Delta\lambda$ | | 22 | 25 | nm | IF=20mA |
| Viewing Angle | 2θ 1/2 | | 66 | | degree | IF=20mA |



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