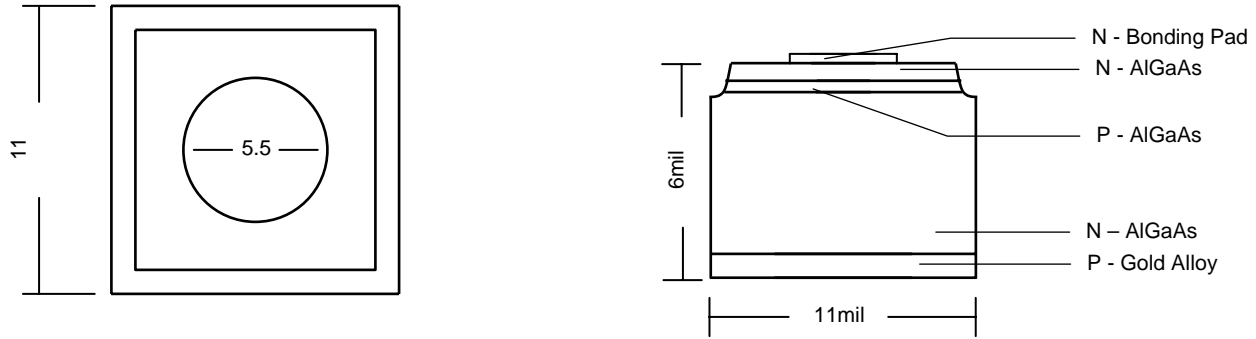


TCM680-10

❖ Outline Dimensions:



❖ Physical Structure:

| | | | | |
|-----------------|----------|-------------|-----------------|---------------------------------------|
| Chip dimensions | | Chip size | 11 mil x 11 mil | 280 μm x 280 μm |
| | | Thickness | 6 mil | 150 μm |
| | | Bonding pad | 5.5 mil | 140 μm |
| Electrode | Top | N (cathode) | Gold alloy | |
| | Backside | P (anode) | Gold alloy | |

❖ Electro-Optical Characteristics:

| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|-------------------------------------|--------------------------------|-----------------------|------|------|------|------|
| Forward Voltage | V_F | $I_F = 20\text{mA}$ | - | 1.80 | 2.40 | V |
| Reverse Voltage | V_R | $I_R = 10\mu\text{A}$ | 5 | - | - | V |
| Peak Wavelength | λ_p | $I_F = 20\text{mA}$ | 670 | 680 | 690 | nm |
| Spectral Bandwidth | $\Delta\lambda$ | $I_F = 20\text{mA}$ | - | 25 | - | nm |
| Radiant Flux | P_O | $I_F = 20\text{mA}$ | 1.8 | 2.3 | - | mW |
| Luminous Intensity | I_V | $I_F = 20\text{mA}$ | - | 25 | - | mcd |
| 2 nd Peak Emission Ratio | R (λ_2/λ_p) | $I_F = 20\text{mA}$ | - | 0 | 0.1 | % |