

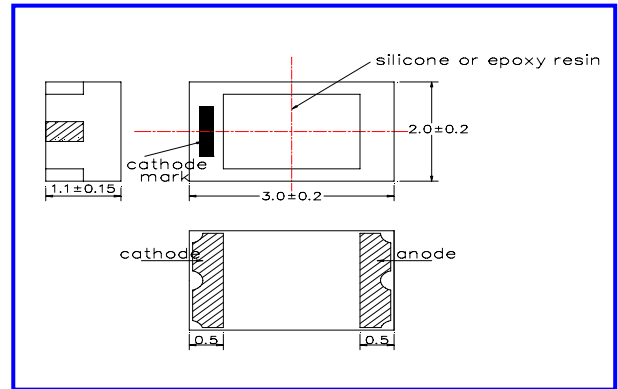
SMC570 High Bright Green color SMD LED on ceramics

SMC570 consists of a InGaAlP LED mounted on the ceramics package and is sealed with silicone or epoxy resin. It emits a spectral band of radiation at 570nm.

◆Outer dimension (Unit : mm)

◆Specifications

- | | |
|---------------------|--------------------------|
| 1) Product Name | SMD type green color LED |
| 2) Type No. | SMC570 |
| 3) Chip | |
| (1) Chip Material | InGaAlP/GaAs |
| (2) Peak Wavelength | 570nm typ. |
| 4) Package | |
| (1) Package | Ceramics |
| (2) Lens | Silicone or Epoxy resin |



◆Absolute Maximum Rating

| Item | Symbol | Maximum Rated Value | Unit | Ambient Temperature |
|-----------------------|-----------|---------------------|------------------|------------------------|
| Power Dissipation | P_D | 60 | mW | $T_a=25^\circ\text{C}$ |
| Forward Current | I_F | 30 | mA | $T_a=25^\circ\text{C}$ |
| Reverse Voltage | V_R | 5 | V | $T_a=25^\circ\text{C}$ |
| Operating Temperature | T_{OPR} | $-20 \sim +80$ | $^\circ\text{C}$ | |
| Storage Temperature | T_{STG} | $-30 \sim +80$ | $^\circ\text{C}$ | |
| Soldering Temperature | T_{SOL} | 240 | $^\circ\text{C}$ | |

‡Soldering condition : Solder condition must be completed within 3 seconds at 240°C

◆Electro-Optical Characteristics [$T_a=25^\circ\text{C}$]

| Item | Symbol | Condition | Minimum | Typical | Maximum | Unit |
|----------------------|-----------------|-------------------|---------|----------|---------|-----------------------|
| Forward Voltage | V_F | $I_F=20\text{mA}$ | | 1.95 | 2.20 | V |
| Reverse Current | I_R | $V_R=5\text{V}$ | | | 10 | μA |
| Total Radiated Power | P_O | $I_F=20\text{mA}$ | | 0.2 | | mW |
| Brightness | I_V | $I_F=20\text{mA}$ | | 30 | | mcd |
| Radiant Intensity | I_E | $I_F=20\text{mA}$ | | 0.06 | | mW/sr |
| Peak Wavelength | λ_P | $I_F=20\text{mA}$ | 560 | 570 | 580 | nm |
| Half Width | $\Delta\lambda$ | $I_F=20\text{mA}$ | | 15 | | nm |
| Viewing Half Angle | $\Delta\theta$ | $I_F=20\text{mA}$ | | ± 55 | | deg. |

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512.

‡Brightness is measured by Tektronix J-16.