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SMC660N

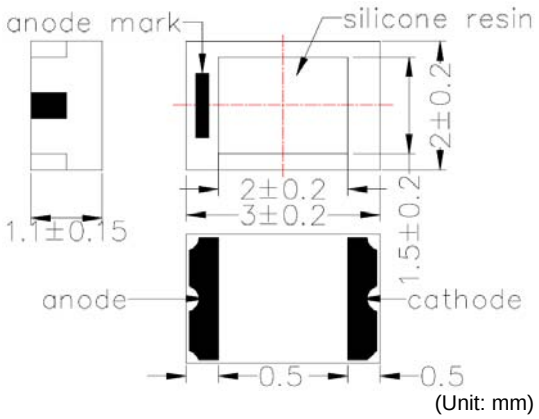
TECHNICAL DATA

Visible LED, SMD AlGaInP

SMC660N are AlGaInP LEDs mounted on a ceramic SMD package and sealed with silicone resin for damp proof.
On forward bias, it emits a radiation of typical 10 mW at a peak wavelength of 660 nm.

Specifications

- Structure: AlGaInP
- Peak Wavelength: typ. 660 nm
- Optical Output Power: typ. 10 mW
- Package: Ceramic SMD, silicon resin



(Unit: mm)

Absolute Maximum Ratings (T_a=25°C)

Item	Symbol	Value	Unit
Power Dissipation	P_D	130	mW
Forward Current	I_F	50	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-30 … +80	°C
Storage Temperature	T_{stg}	-30 … +100	°C
Soldering Temperature *	T_{sol}	265	°C

* must be completed within 5 seconds

Electro-Optical Characteristics

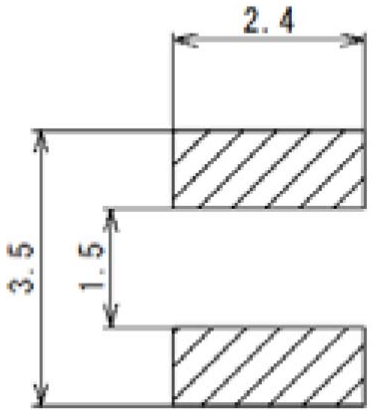
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F = 20 mA	-	2.15	2.4	V
Reverse Current	I_R	V_R = 5 V	-	-	10	µA
Total Radiated Power	P_O	I_F = 20 mA	-	10	-	mW
Radiation Intensity	I_E	I_F = 20 mA	-	3	-	mW/sr
Brightness	I_V	I_F = 20 mA	-	200	-	mcd
Peak Wavelength	λ_P	I_F = 20 mA	650	660	670	nm
Half Width	$\Delta\lambda$	I_F = 20 mA	-	18	-	nm
Viewing Half Angle	$\Theta_{1/2}$	I_F = 20 mA	-	±55	-	deg.

Brightness is measured by Tektronix J-16
Total Radiated Power is measured by Photodyne #500

Notes

- Do not view directly into the emitting area of the LED during operation!
- The above specifications are for reference purpose only and subjected to change without prior notice.

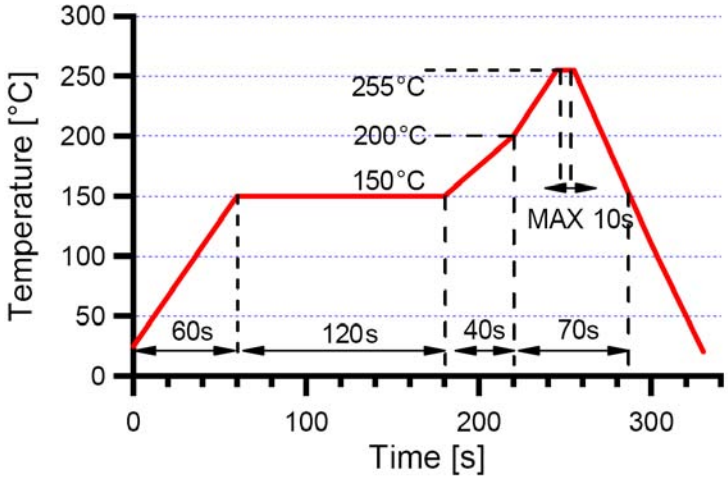
Recommended Land Layout (Unit: mm)



1. *Soldering Conditions*

- DO NOT apply any stress to the lead particularly when heat.
- After soldering the LEDs should be protected from mechanical shock or vibration until the LEDs return to room temperature.
- When it is necessary to clamp the LEDs to prevent soldering failure, it is important to minimize the mechanical stress on the LEDs.

Soldering Conditions



2. *Static Electricity*

- The LEDs are very sensitive to Static Electricity and surge voltage. So it is recommended that a wrist band or an anti-electrostatic glove be used when handling the LEDs.
- All devices, equipment and machinery must be grounded properly. It is recommended that precautions should be taken against surge voltage to the equipment that mounts the LEDs.