

**SPECIFICATION OF LED CHIP**  
**C680-35**  
**[INFRARED]**

## 1) Commodity Type and Physical Characteristics.

- |                      |             |                  |                  |
|----------------------|-------------|------------------|------------------|
| 1. Material          | GaAlAs      |                  |                  |
| 2. Electrode         | Top Side    | N (cathode) side | : Au Alloy & Pad |
|                      | Bottom Side | P (anode) side   | : Au Alloy       |
| 3. Electrode Pattern | Fig.1       |                  |                  |
| 4. Chip Size         | Fig.2       |                  |                  |
| 5. Chip Thickness    | Fig.2       |                  |                  |
| 6. Emission Area     | Fig.2       |                  |                  |

## 2) Electro-Optical Characteristics [Ta=25°C]

Parameters	Symbol	Condition	min.	typ.	max.	Unit
Forward Voltage	Vf	If=20mA		1.8	2.2	V
Reverse Current	Ir	Vr=5V			10	uA
Power Intensity	Po	If=20mA	1.0	2.0		mW
Peak Wavelength	$\lambda_P$	If=20mA	670	680	690	nm
Spectral Radiation Bandwidth	$\Delta\lambda$	If=20mA		20		nm
Rise Time	tr	If=20mA		80		ns
Full time	tf	If=20mA		80		ns

‡ Die shall be mounted on TO=18 gold header without resin coated.

[Unit: um]

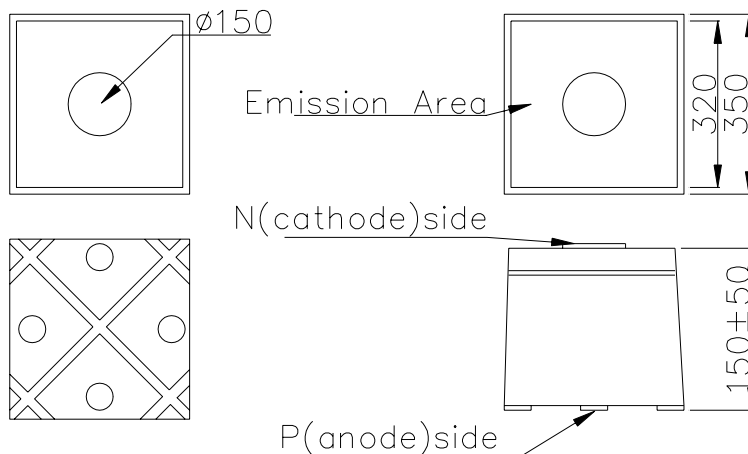


Fig.1 Electrode Pattern

Fig.2 Chip size and Emission Area