

SPECIFICATION OF LED CHIP

C680-40

[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	λ_P	If=20mA	665	680	695	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]

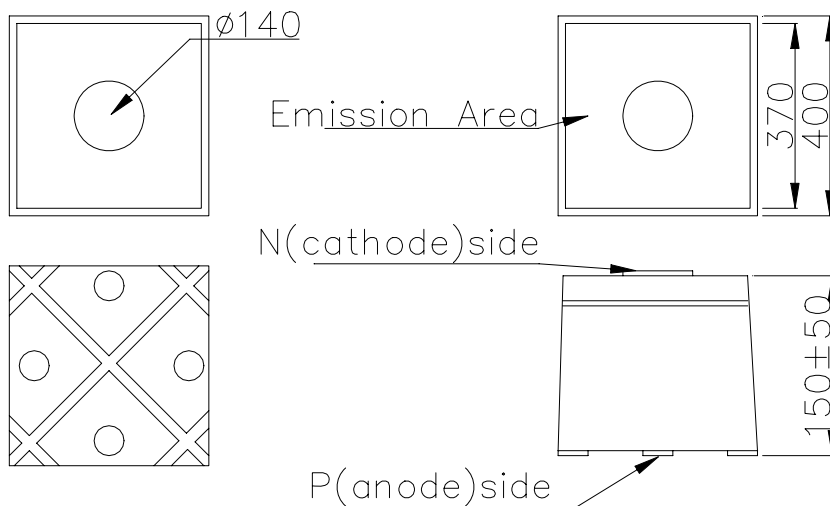


Fig.1 Electrode Pattern

Fig.2 Chip size and Emission Area