LIGHT

# LG-03PT4D94G-302H-B

## PHOTO TRANSISTOR

DATA SHEET

SPEC. NO. : SZ22080101
DATE : 2022/08/01
REV. : A/0

Approved By: Checked By: Prepared By:

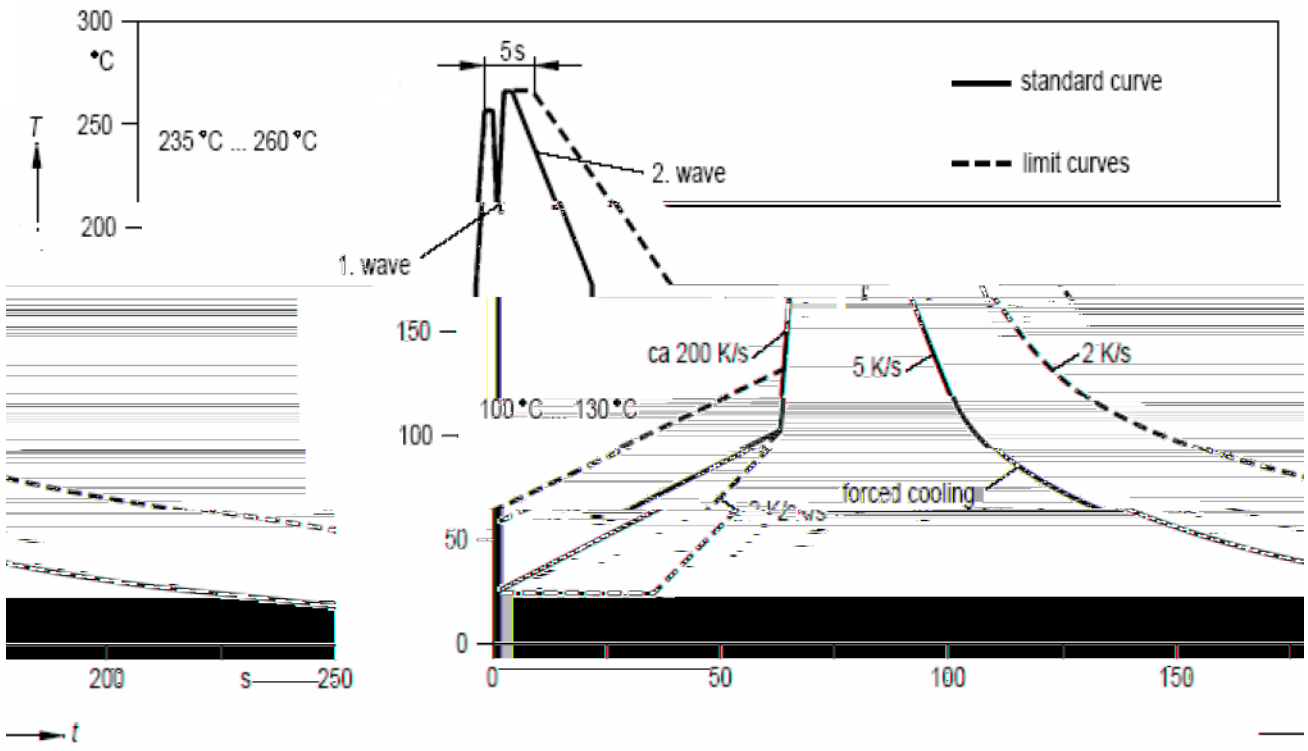
## Electrical Optical Characteristics at Ta=25℃

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
|---|---|---|---|---|---|---|
| Range of Spectral Bandwidth | $_{0.5}$ | 840 | --- | 1100 | nm | --- |
| Wavelength of Peak Sensitivity | $_{P}$ | --- | 940 | --- | nm | --- |
| Collector- Emitter Breakdown Voltage | $V_{(BR)CEO}$ | 30 | --- | --- | V | $I_C$=0.1mA Ee=0mW/cm$^2$ |
| Emitter-Collector Breakdown Voltage | $V_{(BR)ECO}$ | 5 | --- | --- | V | $I_R$=0.1mA Ee=0 mW/cm$^2$ |
| Collector- Emitter Saturation Voltage | $V_{CE(SAT)}$ | --- | --- | 0.5 | V | $I_C$=0.1 mA Ee=1.0mW/cm$^2$ |
| Rise Time | $T_r$ | --- | 15 | --- | | Vcc=5V $R_L$=1K $I_C$=1mA |
| Fall Time | $T_f$ | --- | 15 | --- | | Vcc=5V $R_L$=1K $I_C$=1mA |
| Viewing Angle | $_{1/2}$ | --- | 35 | --- | Deg. | |
| Collector Dark Current | $I_{CEO}$ | --- | --- | 100 | nA | $V_{CE}$=10V $E_e$=0 mW/cm$^2$ |
| On State Collector Current | $I_{C(ON)}$ | 6 | 10 | 15.6 | mA | $V_{CE}$=5V $E_e$=1.0mW/cm$^2$ $_P$=940nm |

**Note:**

1. 2 $_{1/2}$ is the off-axis angle at which the $I_{C(ON)}$ is half the axial $I_{C(ON)}$.
2. The $I_{C(ON)}$ guarantee should be added ±15% tolerance.

## Recommended Wave Soldering Profile



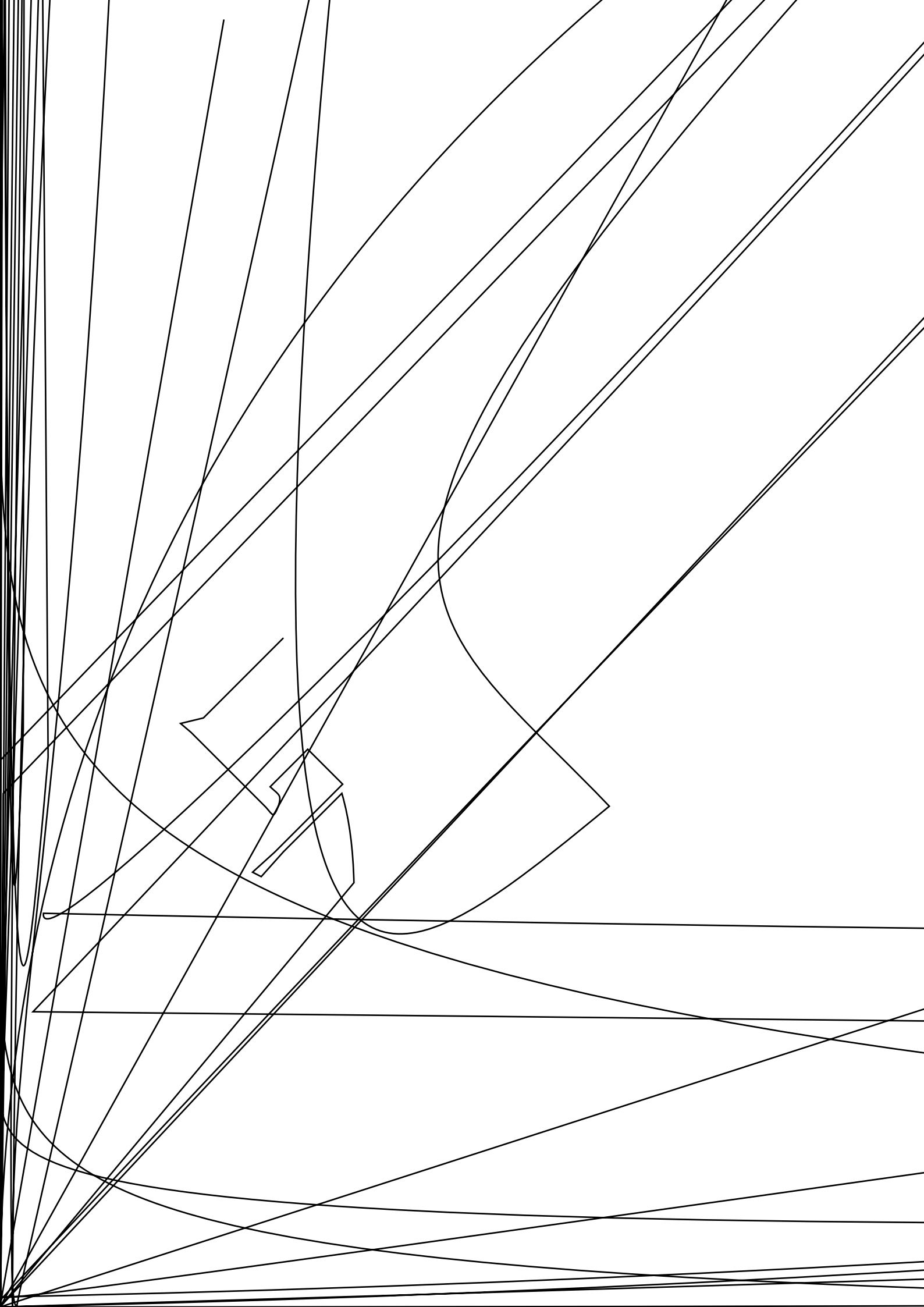
# PHOTO TRANSISTOR Specification

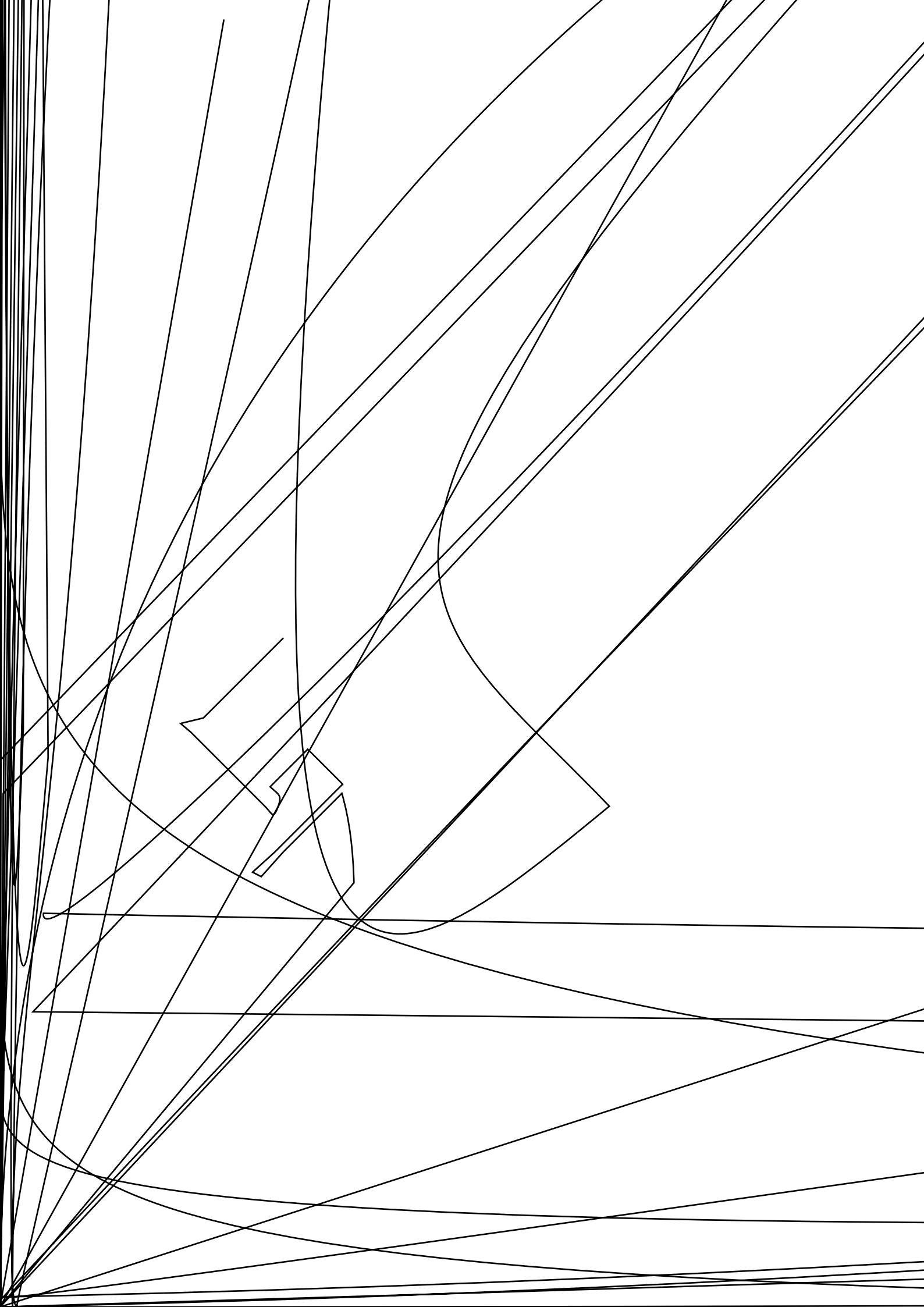
●**Commodity: PHOTO TRANSISTOR**

●**Ic(on) Bin Limits**

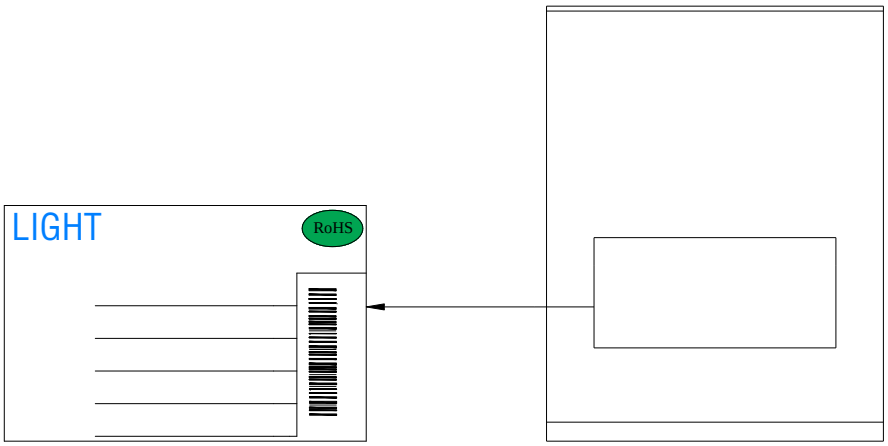
| BIN CODE | Min. (mA) | Max. (mA) |
|---|---|---|
| 66 | 6 | 8 |
| 67 | 8 | 10 |
| 68 | 10 | 12.5 |
| 69 | 12.5 | 15.6 |

**NOTE**: The Ic(on) guarantee should be added 15% tolerance.

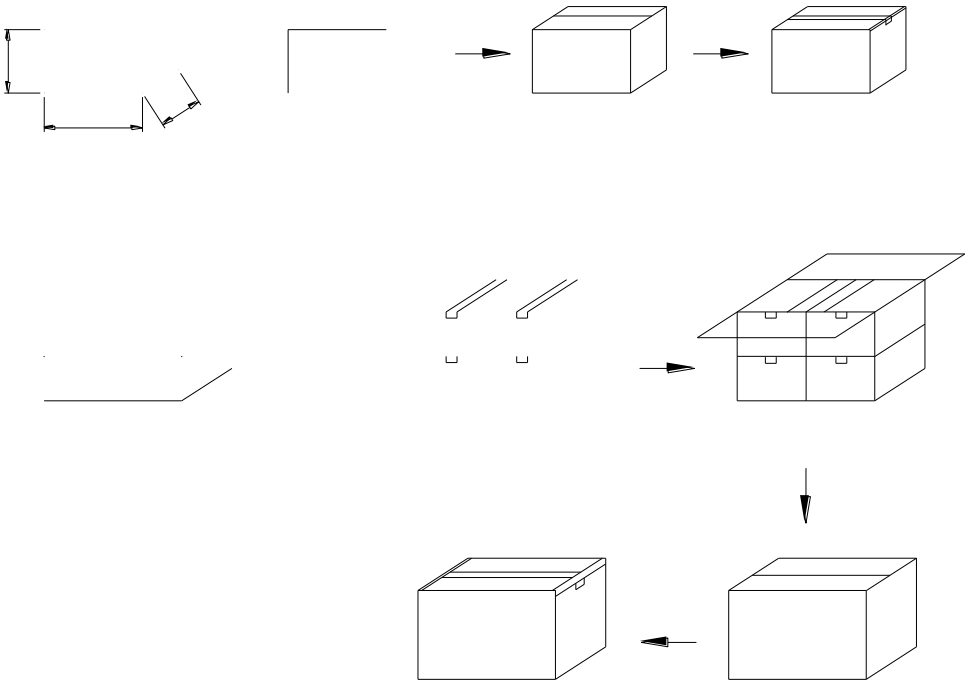




# PACKAGE




Bag



| Bag minimum volume (pcs / Bag) | Bag volume (pcs / Bag) | Inner box volume (Bag / box) | Outer carton volume (Box / Carton) |
|---|---|---|---|
| 500 | 1000 | 10 | 4 |