CNY17-X Series

Rev.A.1.0

## DESCRIPTION:

The CNY17-X series combine an AIGaAs infrared emitting diode as the emitter which is optically coupled to a silicon

## Characteristics Curves

FIG.1: Forward Current vs. Ambient Temperature

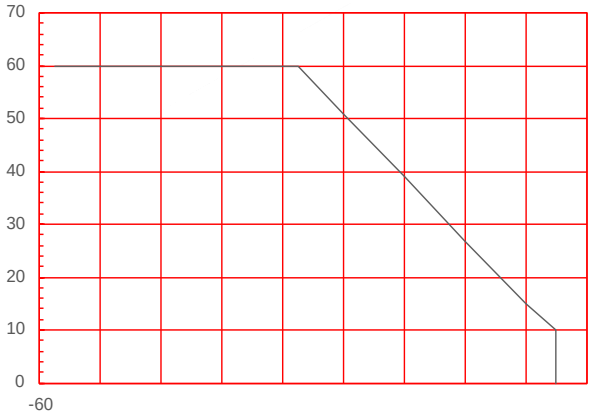



FIG.2: Collector Power Dissiption vs. Ambient Temperature

FIG.7: Normalized Current Transfer Ratio vs. Ambient Temperature

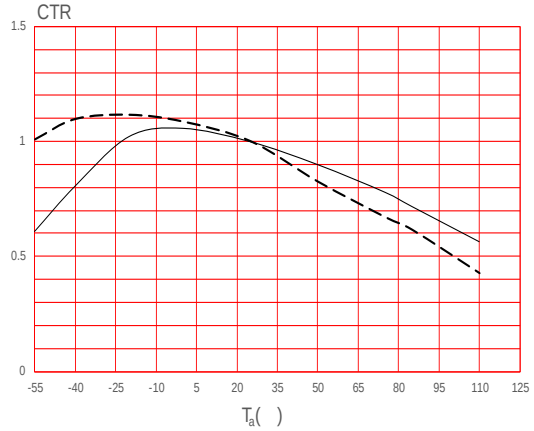



FIG.8: Normalized Collector-emitter Saturation Voltage vs. Ambient Temperature 1105031 m 99-0.0f*4.9

## Test Circuits

FIG.13: Test Circuits of Response Time

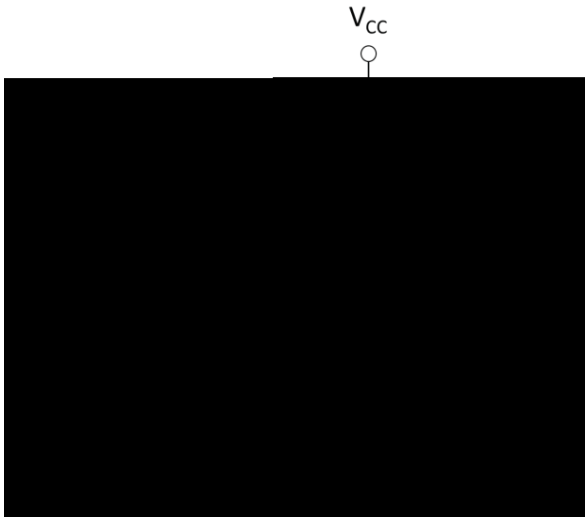
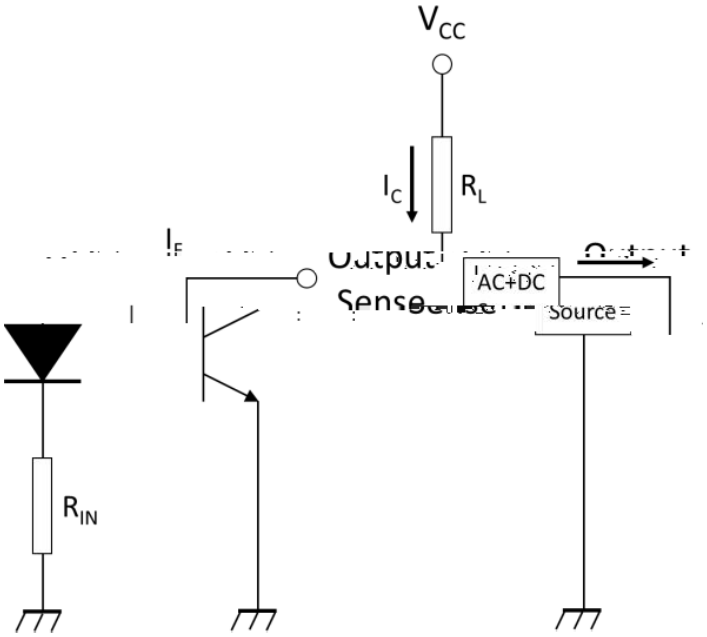



FIG.14: Curves of Response Time

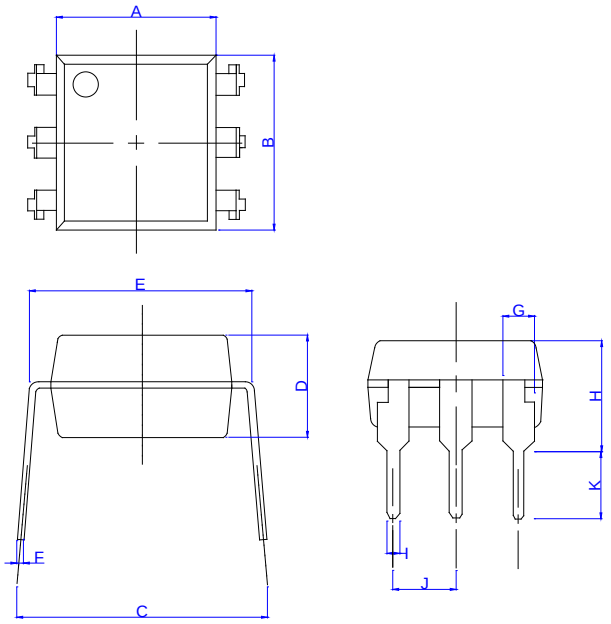



FIG.15: Test Circuits of Frequency Response



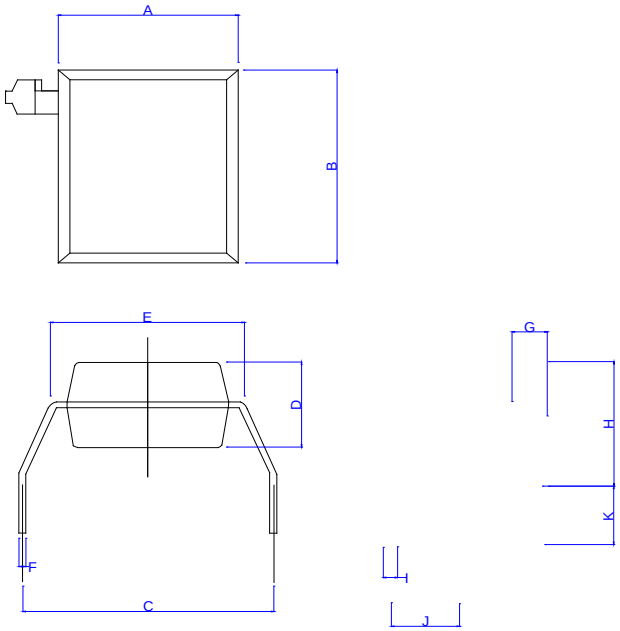
# Package Dimension (Unit: mm)

Standard DIP Type:



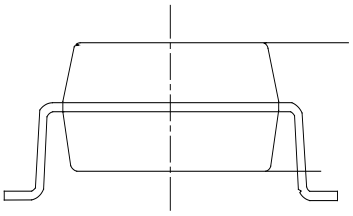

| Ref. | Dimensions | | | | | |
|---|---|---|---|---|---|---|
| | Millimeters | | | Inches | | |
| | Min. | Typ. | Max. | Min. | Typ. | Max. |
| A | 6.00 | | 7.00 | 0.237 | | 0.277 |
| B | 6.62 | | 7.62 | 0.262 | | 0.301 |
| C | 7.10 | | 10.16 | 0.281 | | 0.402 |
| D | 3.00 | | 4.00 | 0.119 | | 0.158 |
| E | 7.32 | | 7.92 | 0.289 | | 0.313 |
| F | 0.16 | | 0.36 | 0.006 | | 0.014 |
| G | 0.90 | | 1.50 | 0.036 | | 0.059 |
| H | 3.50 | | 4.80 | 0.138 | | 0.190 |
| I | 0.40 | | 0.60 | 0.016 | | 0.024 |
| J | 2.29 | | 2.79 | 0.091 | | 0.110 |
| K | 2.40 | | 3.40 | 0.095 | | 0.134 |

Option M Type:




| Ref. | Dimensions | | | | | |
|---|---|---|---|---|---|---|
| | Millimeters | | | Inches | | |
| | Min. | Typ. | Max. | Min. | Typ. | Max. |
| A | 6.00 | | 7.00 | 0.237 | | 0.277 |
| B | 6.82 | | 7.42 | 0.270 | | 0.293 |
| C | 9.66 | | 10.66 | 0.382 | | 0.421 |
| D | 3.00 | | 4.00 | 0.119 | | 0.158 |
| E | 7.32 | | 7.92 | 0.289 | | 0.313 |
| F | | | | | | |
| G | 0.90 | | 1.50 | 0.036 | | 0.059 |
| H | 4.28 | | 4.88 | 0.169 | | 0.193 |
| I | | | | | | |
| J | | | | | | |
| K | | | | | | |

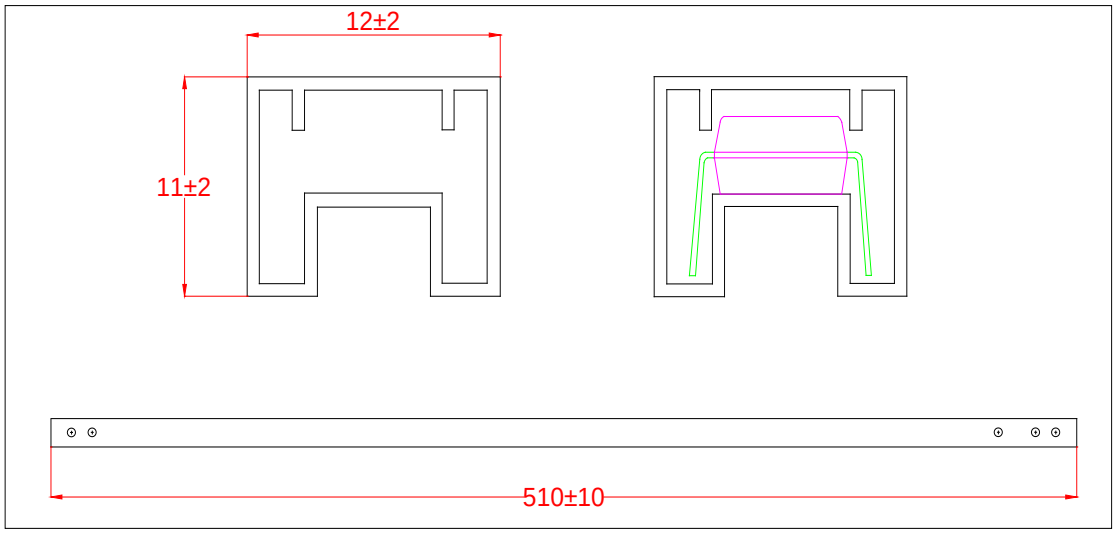
Option S Type:



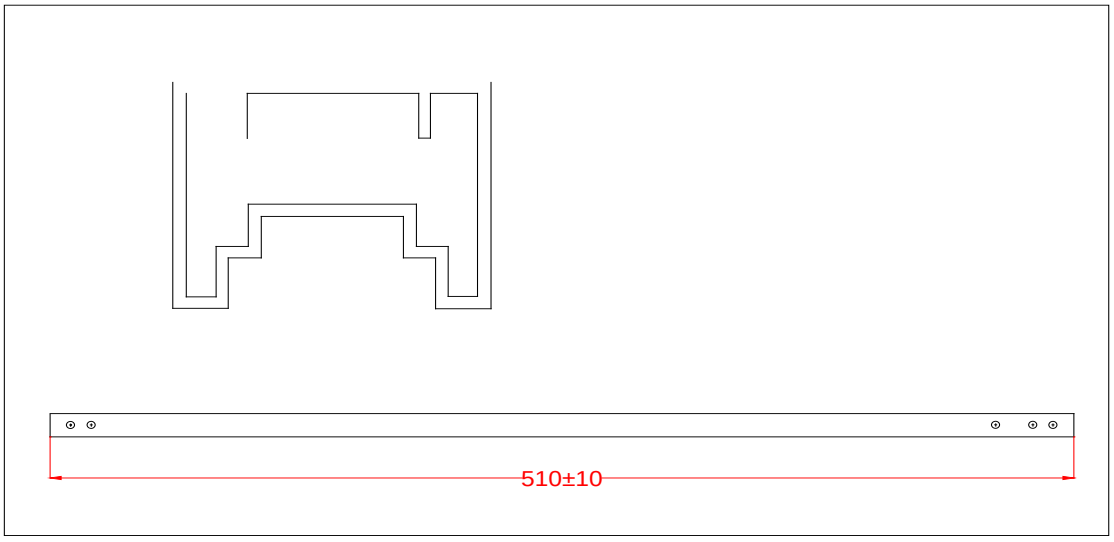
RECOMMENDED SOLDER MASK

## TUBE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

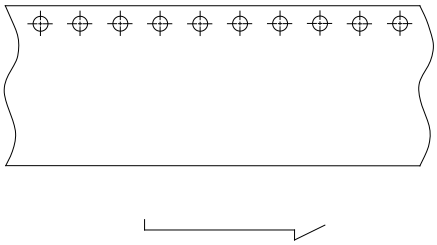
Standard DIP



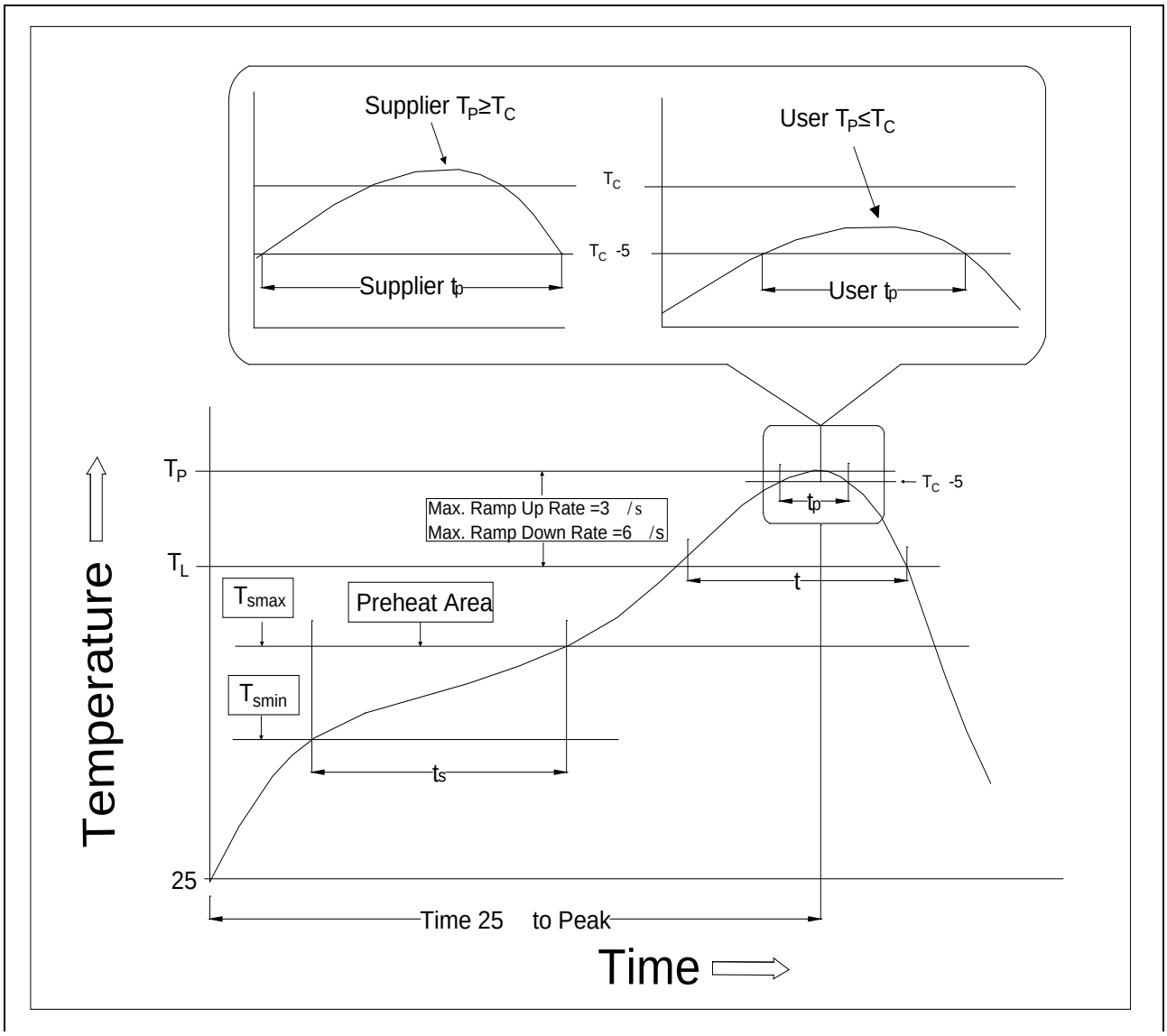

Option M



## CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)



## REFLOW INFORMATION




P

## WAVE SOLDERING




| HAND SOLDERING BY SOLDERING IRON | |
|---|---|
| Soldering Temperature | 360 5 |
| Soldering Time | 3s max. |

Note:

1. Reflow soldering is recommended at the temperatures and times shown, no more than three times.

2. Avoid direct contact between the epoxy body and any tools or surfaces exceeding its maximum storage temperature.

3. Application of pressure on the epoxy body is prohibited at elevated temperatures. In specific scenarios, any applied force must not exceed 2.5N.

4. Ensure the component has cooled to ambient temperature before proceeding with any subsequent