





|                       |           |          |  |
|-----------------------|-----------|----------|--|
| Storage Temperature   | $T_{stg}$ | -55~+125 |  |
| Soldering Temperature | $T_{sol}$ | 260      |  |

**NOTE1:** 100 $\mu$ s pulse, 100Hz frequency

**NOTE2:** AC for 1minute, R.H.=40~60%

### ELECTRICAL CHARACTERISTICS (Temperature=25°C)

|                          |                                      |               |                                                 |           |     |      |          |
|--------------------------|--------------------------------------|---------------|-------------------------------------------------|-----------|-----|------|----------|
|                          |                                      |               |                                                 |           |     |      |          |
| Input                    | Forward Voltage                      | $V_F$         | $I_F=10mA$                                      | -         | 1.2 | 1.5  | V        |
|                          | Reverse Current                      | $I_R$         | $V_R=6V$                                        | -         | -   | 1    | $\mu A$  |
|                          | Terminal Capacitance                 | $C_t$         | $V=0$ ,<br>$f=1MHz$                             | -         | 10  | -    | pF       |
| Output                   | Collector-Emitter dark current       | $I_{CEO}$     | $V_{CE}=200V$ ,<br>$I_F=0$                      | -         | -   | 200  | nA       |
|                          | Collector-Emitter breakdown voltage  | $BV_{CEO}$    | $I_C=0.1mA$<br>$I_F=0$                          | 300       | -   | -    | V        |
|                          | Emitter-Collector breakdown voltage  | $BV_{ECO}$    | $I_E=0.1mA$<br>$I_F=0$                          | 0.3       | -   | -    | V        |
| Transfer Characteristics | Current transfer ratio               | CTR           | $I_F=1mA$<br>$V_{CE}=2V$                        | 1000      | -   | 7500 | %        |
|                          | Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_F=10mA$<br>$I_C=1mA$                         | -         | -   | 1    | V        |
|                          | Isolation resistance                 | $R_{IO}$      | DC500V<br>40~60%R.H.                            | $10^{12}$ | -   | -    | $\Omega$ |
|                          | Floating Capacitance                 | $C_{IO}$      | $V=0$ ,<br>$f=1MHz$                             | -         | 0.8 | -    | pF       |
|                          | Rise Time                            | $t_r$         | $V_{CE}=10V$ ,<br>$I_C=10mA$<br>$R_L=100\Omega$ | -         | 40  | -    | $\mu s$  |
|                          | Fall Time                            | $t_f$         |                                                 | -         | 15  | -    | $\mu s$  |
|                          | Response Time                        | $t_{on}$      |                                                 | -         | 50  | -    | $\mu s$  |
|                          |                                      | $t_{off}$     |                                                 | -         | 15  | -    | $\mu s$  |

**NOTE1:** Rank Table of Current Transfer Ratio (Temperature=25°C)

|   |                              |      |      |
|---|------------------------------|------|------|
|   |                              |      |      |
| J | $I_F=140\mu A$ , $V_{CE}=2V$ | -    | 110  |
|   | $I_F=290\mu A$ , $V_{CE}=2V$ | 450  | -    |
|   | $I_F=1mA$ , $V_{CE}=2V$      | 1000 | 7500 |
| K | $I_F=1mA$ , $V_{CE}=2V$      | 1000 | 7500 |
| L | $I_F=1mA$ , $V_{CE}=1V$      | 2000 | 7500 |

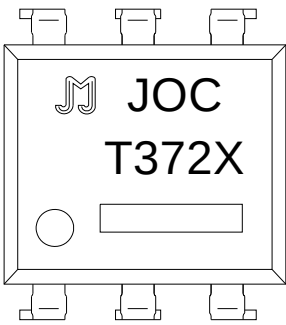


## ORDERING INFORMATION

|                                   |              |                       |                     |                |                  |              |
|-----------------------------------|--------------|-----------------------|---------------------|----------------|------------------|--------------|
| <u>J</u>                          | <u>OC</u>    | <u>T</u>              | <u>372</u>          | <u>J</u>       | <u>-D6P/S</u>    | <u>/</u>     |
| JieJie Microelectronics Co., Ltd. | Opto Coupler | Darlington Transistor | Marketization Model | CTR Rank:J/K/L | P:DIP6<br>S:SMD6 | S:T3<br>L:T4 |

| Packing Quantity |                 |                      |                                  |
|------------------|-----------------|----------------------|----------------------------------|
| Option           | Quantity        | Quantity – Inner box | Quantity –Outer box              |
| DIP              | 60 Units/Tube   | 40 Tubes/Inner box   | 5 Inner box/Outer box =12k Units |
| SMD              | 1200 Units/Reel | 2 Reels/Inner box    | 5 Inner box/Outer box =12k Units |

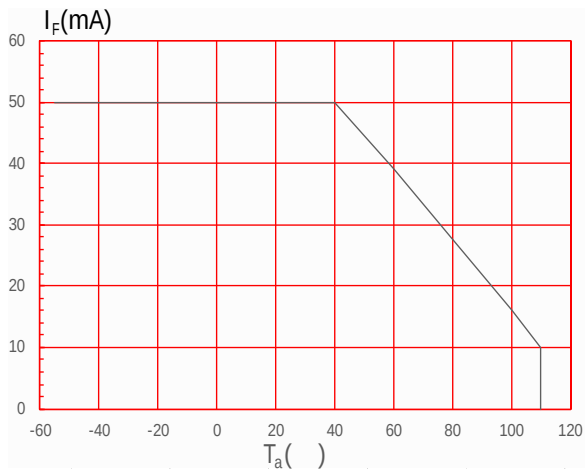
## MARKING

|                                                                                     |                                                                                                                     |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|  | <br>Production Information Code |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|

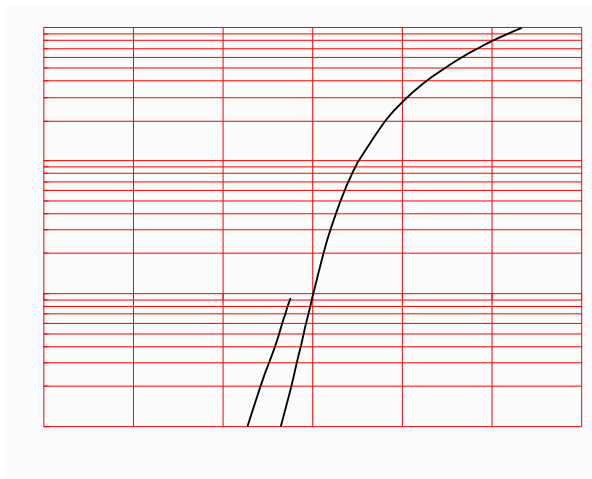


## Characteristics Curves

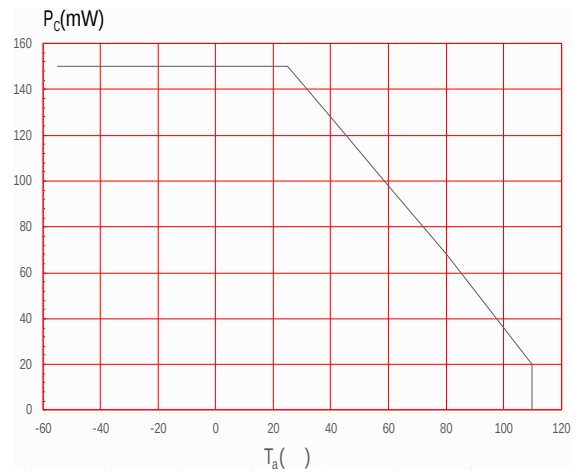
Max. Allowable LED Forward Current vs. Ambient Temperature



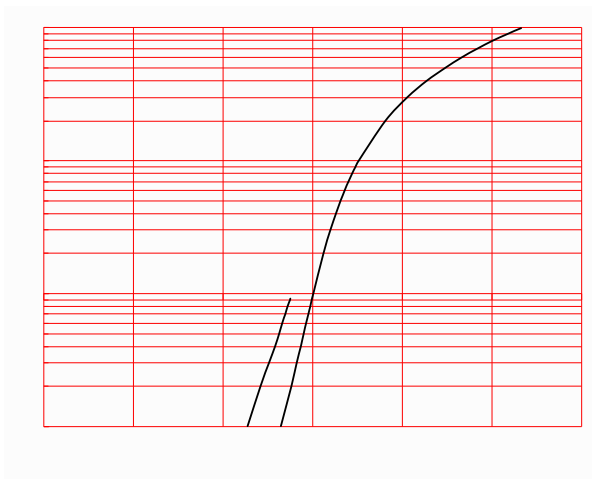
Forward Current vs. Forward Voltage



Collector Power Dissipation vs. Ambient Temperature

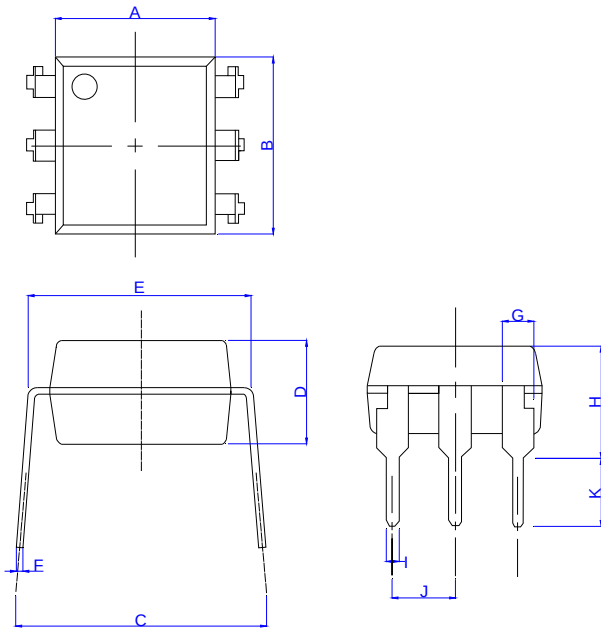


Collector Dark Current vs. Ambient Temperature

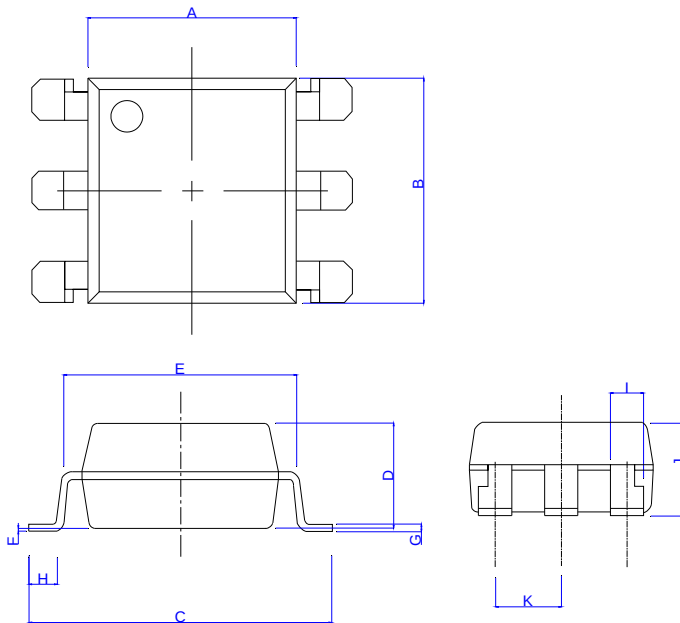




## Package Dimension (Unit: mm)



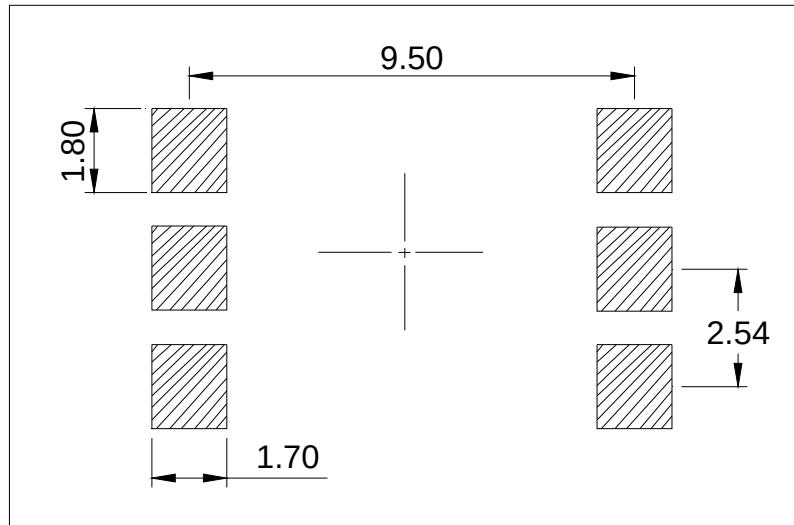
| Ref. | Dimensions  |      |      |        |      |       |
|------|-------------|------|------|--------|------|-------|
|      | Millimeters |      |      | Inches |      |       |
|      | Min.        | Typ. | Max. | Min.   | Typ. | Max.  |
| A    | 6.20        |      | 6.60 | 0.244  |      | 0.260 |
| B    | 6.92        |      | 7.32 | 0.272  |      | 0.288 |
| C    | 7.15        |      | 8.95 | 0.281  |      | 0.352 |
| D    | 3.20        |      | 3.60 | 0.126  |      | 0.142 |
| E    | 7.32        |      | 7.92 | 0.288  |      | 0.312 |
| F    | 0.15        |      | 0.35 | 0.006  |      | 0.014 |
| G    | 1.15        |      | 1.35 | 0.045  |      | 0.053 |
| H    | 3.90        |      | 4.50 | 0.154  |      | 0.177 |
| I    | 0.40        |      | 0.60 | 0.016  |      | 0.024 |
| J    | 2.29        |      | 2.79 | 0.090  |      | 0.110 |
| K    | 2.24        |      | 3.24 | 0.088  |      | 0.128 |



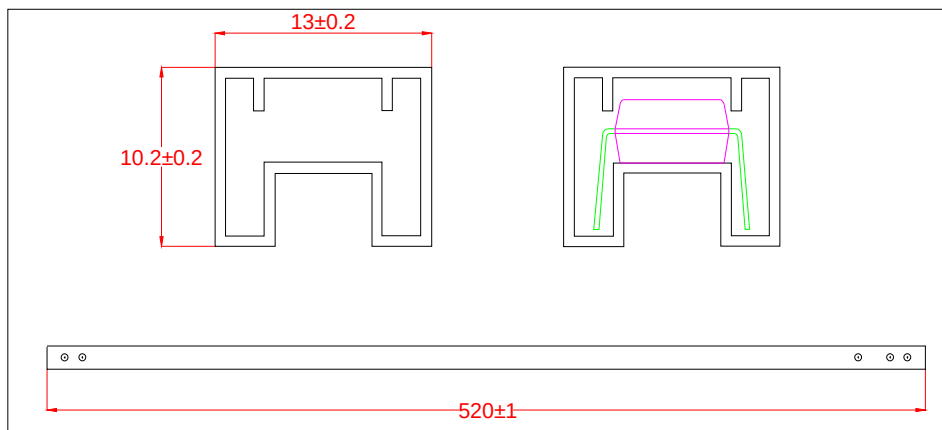
| Ref. | Dimensions  |      |       |        |      |       |
|------|-------------|------|-------|--------|------|-------|
|      | Millimeters |      |       | Inches |      |       |
|      | Min.        | Typ. | Max.  | Min.   | Typ. | Max.  |
| A    | 6.20        |      | 6.60  | 0.244  |      | 0.260 |
| B    | 6.92        |      | 7.32  | 0.272  |      | 0.288 |
| C    | 9.50        |      | 10.50 | 0.375  |      | 0.413 |
| D    | 3.20        |      | 3.60  | 0.126  |      | 0.142 |
| E    | 7.32        |      | 7.92  | 0.288  |      | 0.312 |
| F    | 0.05        |      | 0.35  | 0.002  |      | 0.014 |
| G    | 0.16        |      | 0.36  | 0.006  |      | 0.014 |
| H    | 0.60        |      | 1.40  | 0.024  |      | 0.055 |
| I    | 0.90        |      | 1.50  | 0.035  |      | 0.059 |
| J    | 3.30        |      | 3.90  | 0.130  |      | 0.154 |
| K    | 2.29        |      | 2.79  | 0.090  |      | 0.110 |



## RECOMMENDED SOLDER MASK (Dimensions in mm unless otherwise stated)

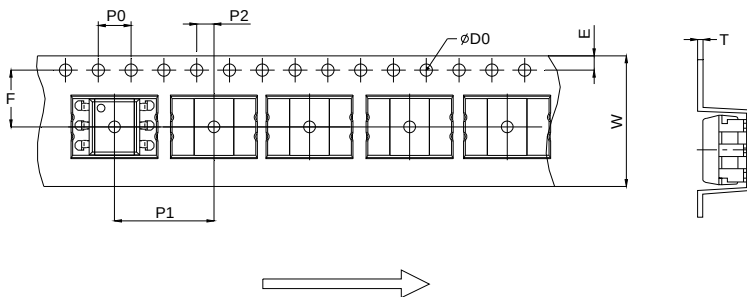


## TUBE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

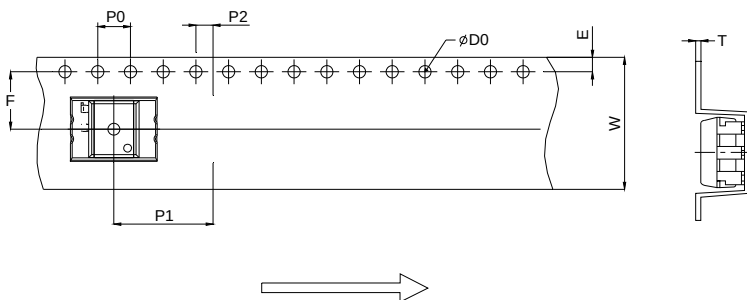




CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)



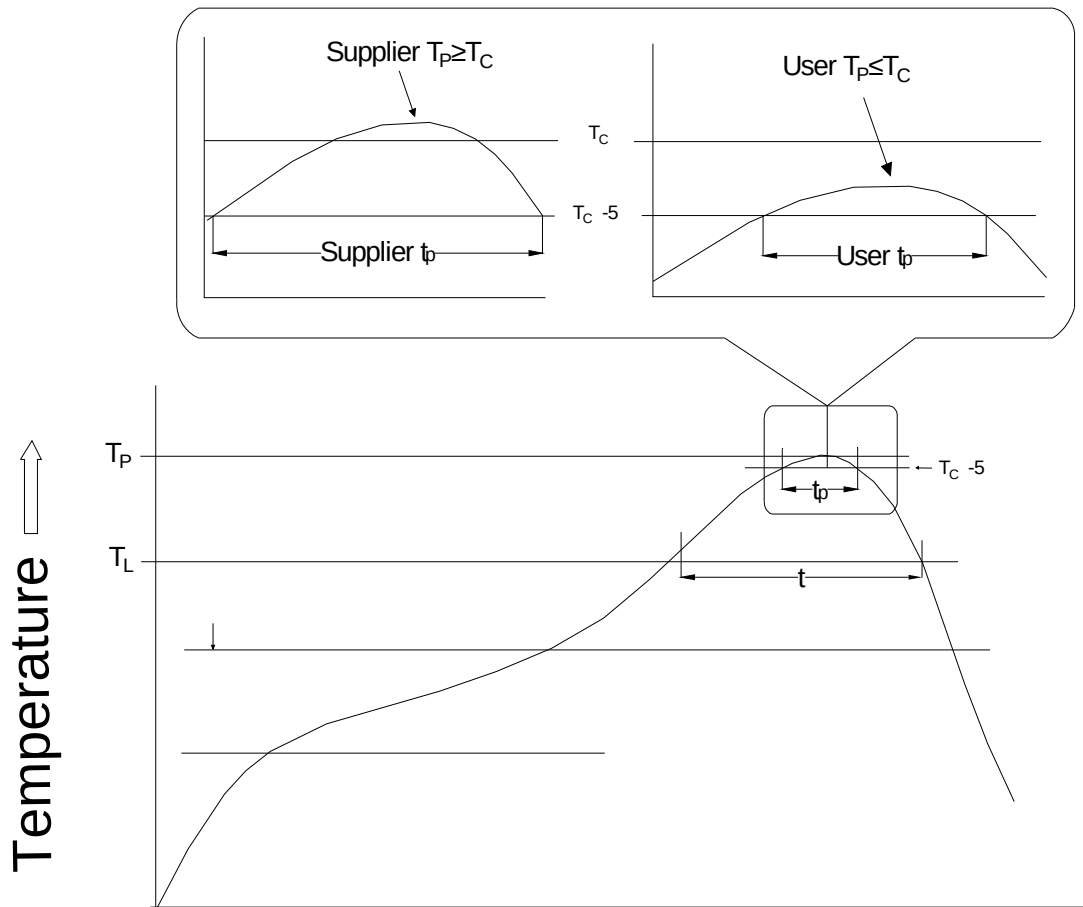
| Ref. | Dimensions  |       |       |        |       |       |
|------|-------------|-------|-------|--------|-------|-------|
|      | Millimeters |       |       | Inches |       |       |
|      | Min.        | Typ.  | Max.  | Min.   | Typ.  | Max.  |
| D0   |             | 1.50  | 1.60  |        | 0.059 | 0.063 |
| P0   | 3.90        | 4.00  | 4.10  | 0.154  | 0.157 | 0.161 |
| P1   | 11.90       | 12.00 | 12.10 | 0.469  | 0.472 | 0.476 |
| P2   | 1.90        | 2.00  | 2.10  | 0.075  | 0.079 | 0.083 |
| E    | 1.65        | 1.75  | 1.85  | 0.065  | 0.069 | 0.073 |
| F    | 7.40        | 7.50  | 7.60  | 0.291  | 0.295 | 0.299 |
| T    | 0.35        | 0.40  | 0.45  | 0.014  | 0.016 | 0.018 |
| W    | 15.70       | 16.00 | 16.30 | 0.618  | 0.630 | 0.642 |



| Ref. | Dimensions  |       |       |        |       |       |
|------|-------------|-------|-------|--------|-------|-------|
|      | Millimeters |       |       | Inches |       |       |
|      | Min.        | Typ.  | Max.  | Min.   | Typ.  | Max.  |
| D0   |             | 1.50  | 1.60  |        | 0.059 | 0.063 |
| P0   | 3.90        | 4.00  | 4.10  | 0.154  | 0.157 | 0.161 |
| P1   | 11.90       | 12.00 | 12.10 | 0.469  | 0.472 | 0.476 |
| P2   | 1.90        | 2.00  | 2.10  | 0.075  | 0.079 | 0.083 |
| E    | 1.65        | 1.75  | 1.85  | 0.065  | 0.069 | 0.073 |
| F    | 7.40        | 7.50  | 7.60  | 0.291  | 0.295 | 0.299 |
| T    | 0.35        | 0.40  | 0.45  | 0.014  | 0.016 | 0.018 |
| W    | 15.70       | 16.00 | 16.30 | 0.618  | 0.630 | 0.642 |



## REFLOW INFORMATION







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 manufacturing steps.
5. The component has a shelf life of one year when stored under standard conditions.
6. Recommend storage Temp.: 0~40°C;  
Recommend storage humidity: <60%;  
MSL level: MSL 1

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