





|                       |           |          |  |
|-----------------------|-----------|----------|--|
| Junction Temperature  | $T_j$     | 135      |  |
| Storage Temperature   | $T_{stg}$ | -55~+125 |  |
| Soldering Temperature | $T_{sol}$ | 260      |  |

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

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

(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                | $C_t$      | $V=0, f=1MHz$        | -  | 30  | 250 | pF      |
|        | Collector-Emitter dark current      | $I_{CEO}$  | $V_{CE}=20V, I_F=0$  | -  | -   | 50  | nA      |
| Output | Collector-Emitter breakdown voltage | $BV_{CEO}$ | $I_C=0.1mA, I_F=0$   | 80 | -   | -   | V       |
|        | Emitter-Collector breakdown voltage | $BV_{ECO}$ | $I_E=0.1mA, I_F=0$   | 7  | -   | -   | V       |
|        | Current transfer ratio              | CTR        | $I_F=5mA, V_{CE}=5V$ | 80 | -   | 600 | %       |

Transfer  
Characteristics



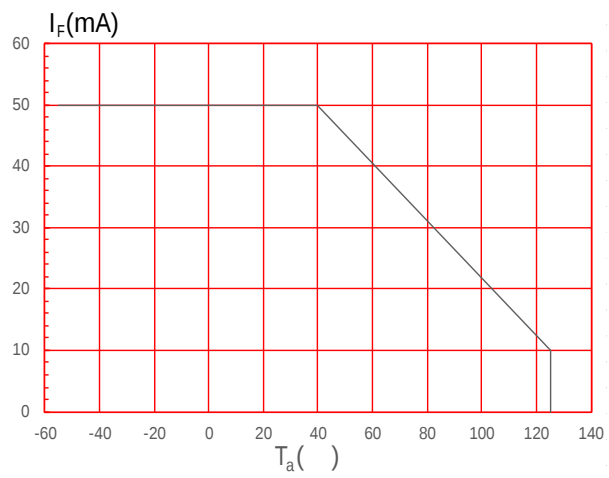
|                                   |              |            |                     |                    |                    |            |                 |
|-----------------------------------|--------------|------------|---------------------|--------------------|--------------------|------------|-----------------|
| <u>J</u>                          | <u>OC</u>    | <u>T</u>   | <u>101</u>          | <u>0</u>           | <u>h</u>           | <u>-L4</u> | <u>/</u>        |
| JieJie Microelectronics Co., Ltd. | Opto Coupler | Transistor |                     |                    |                    | LSOP4      | None:T1<br>R:T2 |
|                                   |              |            |                     | CTR Rank:0/6/7/8/9 | h:Automotive grade |            |                 |
|                                   |              |            | Marketization Model |                    |                    |            |                 |

|        |                 |
|--------|-----------------|
|        |                 |
| None/R | 3000 Units/Reel |

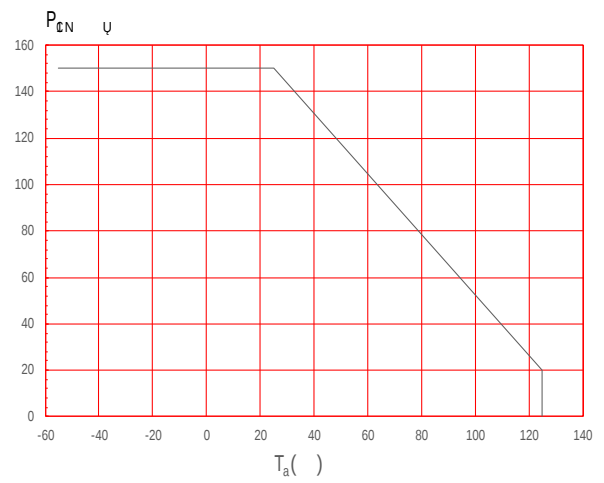
|                                                                                     |                          |
|-------------------------------------------------------------------------------------|--------------------------|
|  | <u>YWWZZX</u><br>LOT NO. |
|-------------------------------------------------------------------------------------|--------------------------|



Max. Allowable LED Forward Current vs. Ambient Temperature

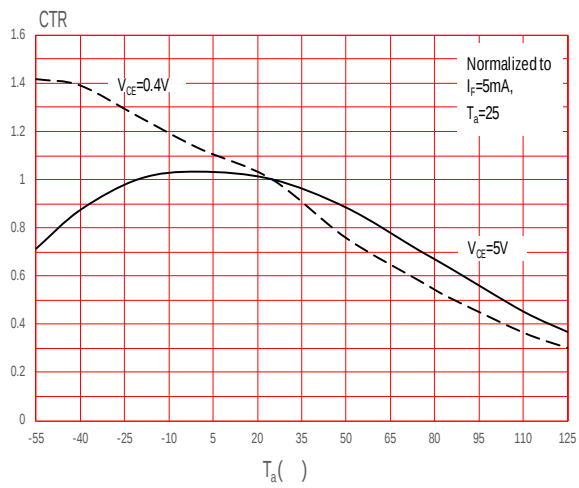


Collector Power Dissipation vs. Ambient Temperature

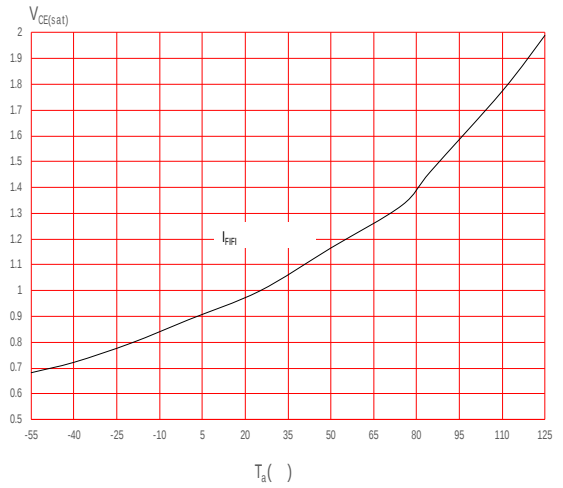




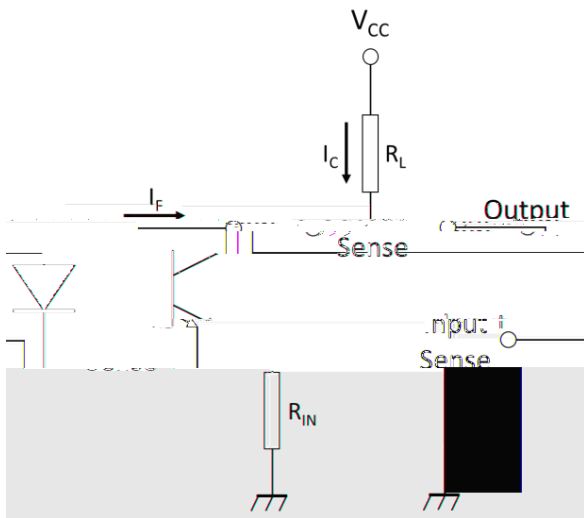
Normalized Current Transfer Ratio vs. Ambient Temperature



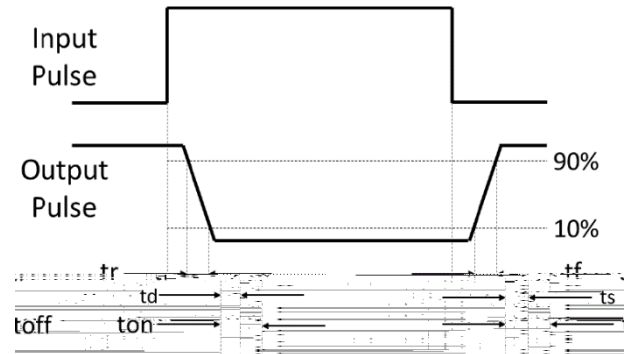
Normalized Collector-emitter Saturation Voltage vs. Ambient Temperature



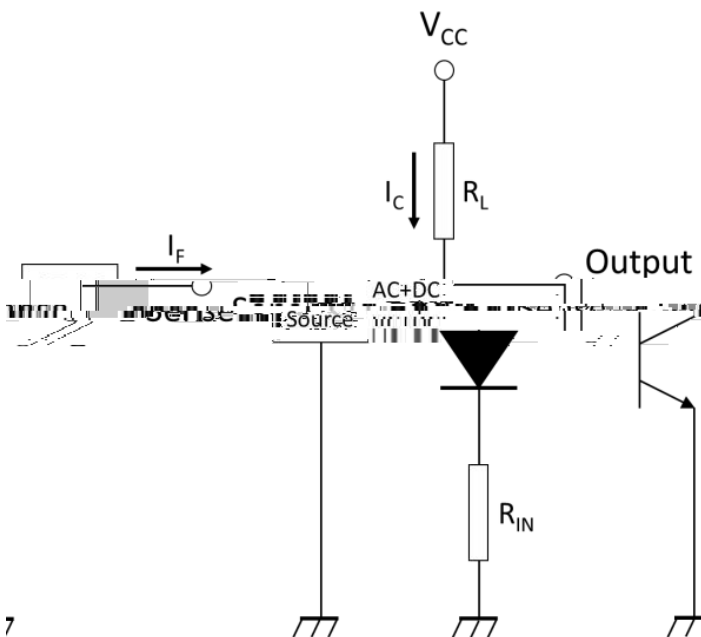
## Test Circuits of Response Time



## Curves of Response Time



## Test Circuits of Frequency Response



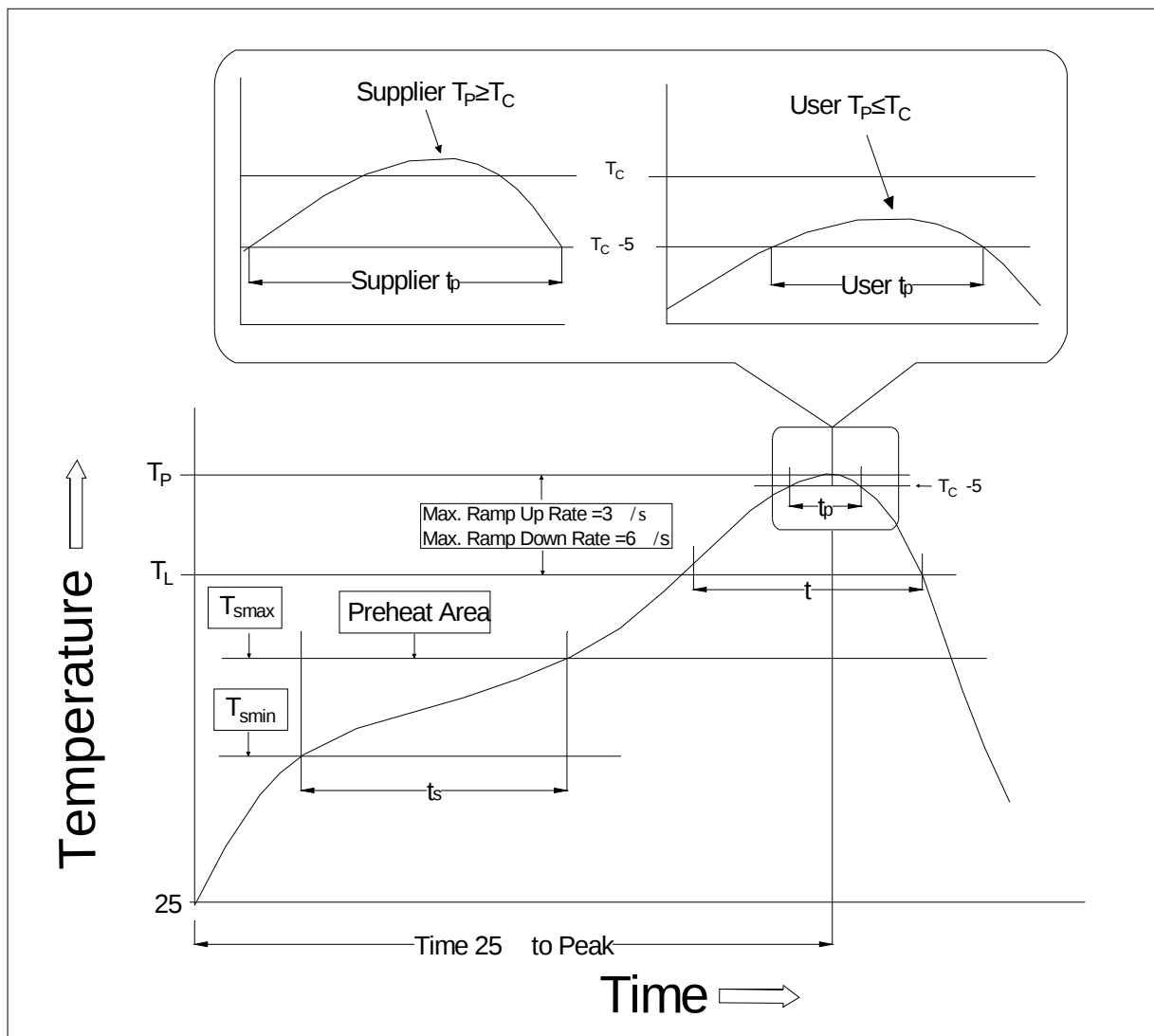
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| Ref. | Dimensions  |        |
|------|-------------|--------|
|      | Millimeters | Inches |





|                                                  |                |                |
|--------------------------------------------------|----------------|----------------|
|                                                  |                |                |
| Temperature Min. ( $T_{smin}$ )                  | 100            | 150            |
| Temperature Max. ( $T_{smax}$ )                  | 150            | 200            |
| Time ( $t_s$ ) from ( $T_{smin}$ to $T_{smax}$ ) | 60-120 seconds | 60-120 seconds |
| Ramp-up Rate ( $t_L$ to $t_P$ )                  | 3 /second max. | 3 /second max. |
| Liquidus Temperature ( $T_L$ )                   | 183            | 217            |
| Time ( $t_L$ ) Maintained Above ( $T_L$ )        | 60-150 seconds | 60-150 seconds |
| Peak Body Package Temperature                    | 235 +0 /-5     | 260 +0 /-5     |
| Time ( $t_P$ ) within 5 of 260                   | 20 seconds     | 30 seconds     |
| Ramp-down Rate ( $T_P$ to $T_L$ )                | 6 /second max. | 6 /second max. |
| Time 25 to Peak Temperature                      | 6 minutes max. | 8 minutes max. |



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Note:

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