



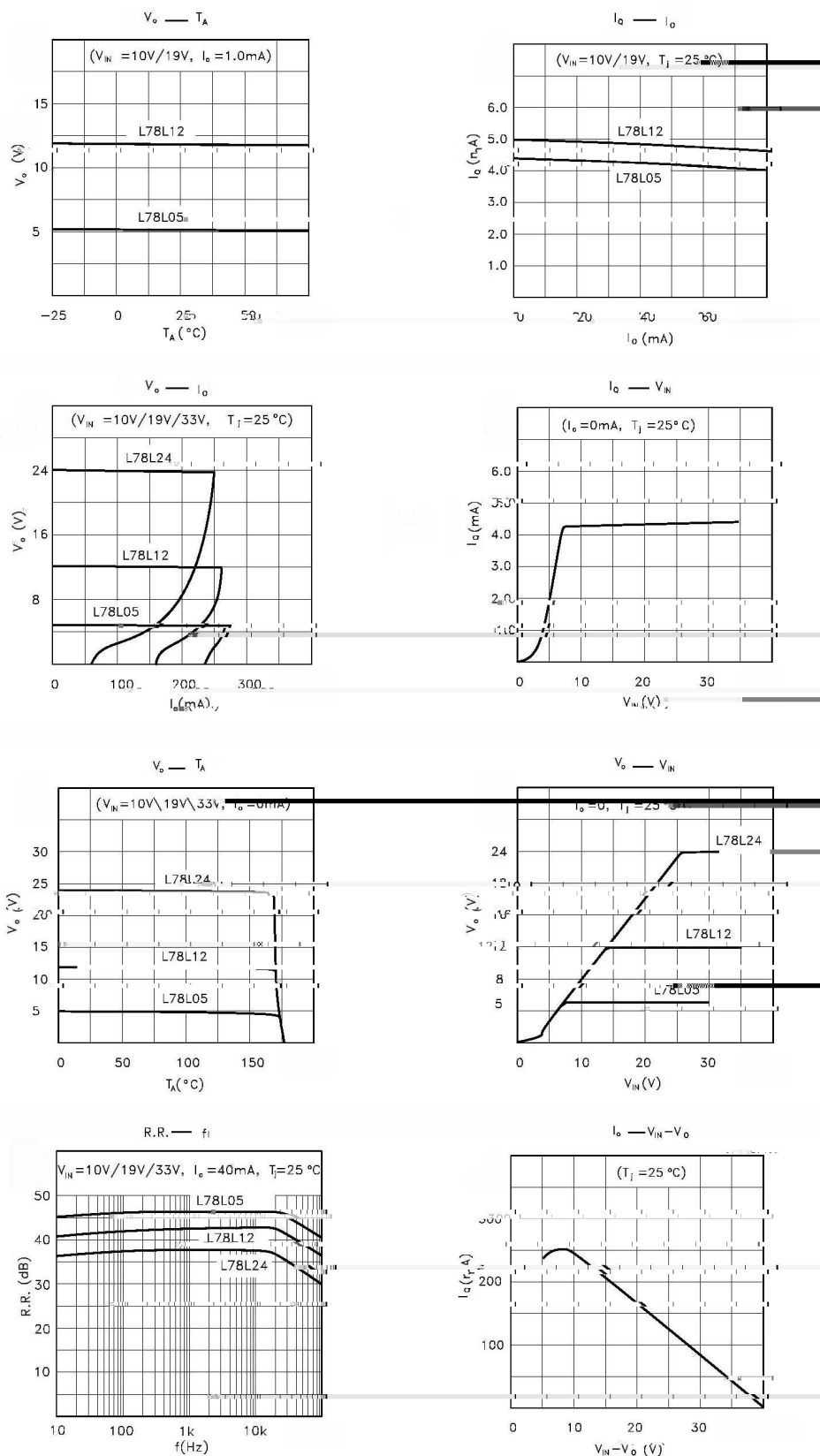
**/ Absolute Maximum Ratings(Ta=25 )**

| Parameter                   | Symbol    | Rating  | Unit |
|-----------------------------|-----------|---------|------|
| Input voltage               | $V_I$     | 35      | V    |
| Output current              | $I_O$     | 100     | mA   |
| Operating Temperature Range | $T_{OPR}$ | -40 125 |      |
| Power Dissipation           | $P_D$     | 500     | mW   |
| Storage temperature range   | $T_{stg}$ | -65 150 |      |

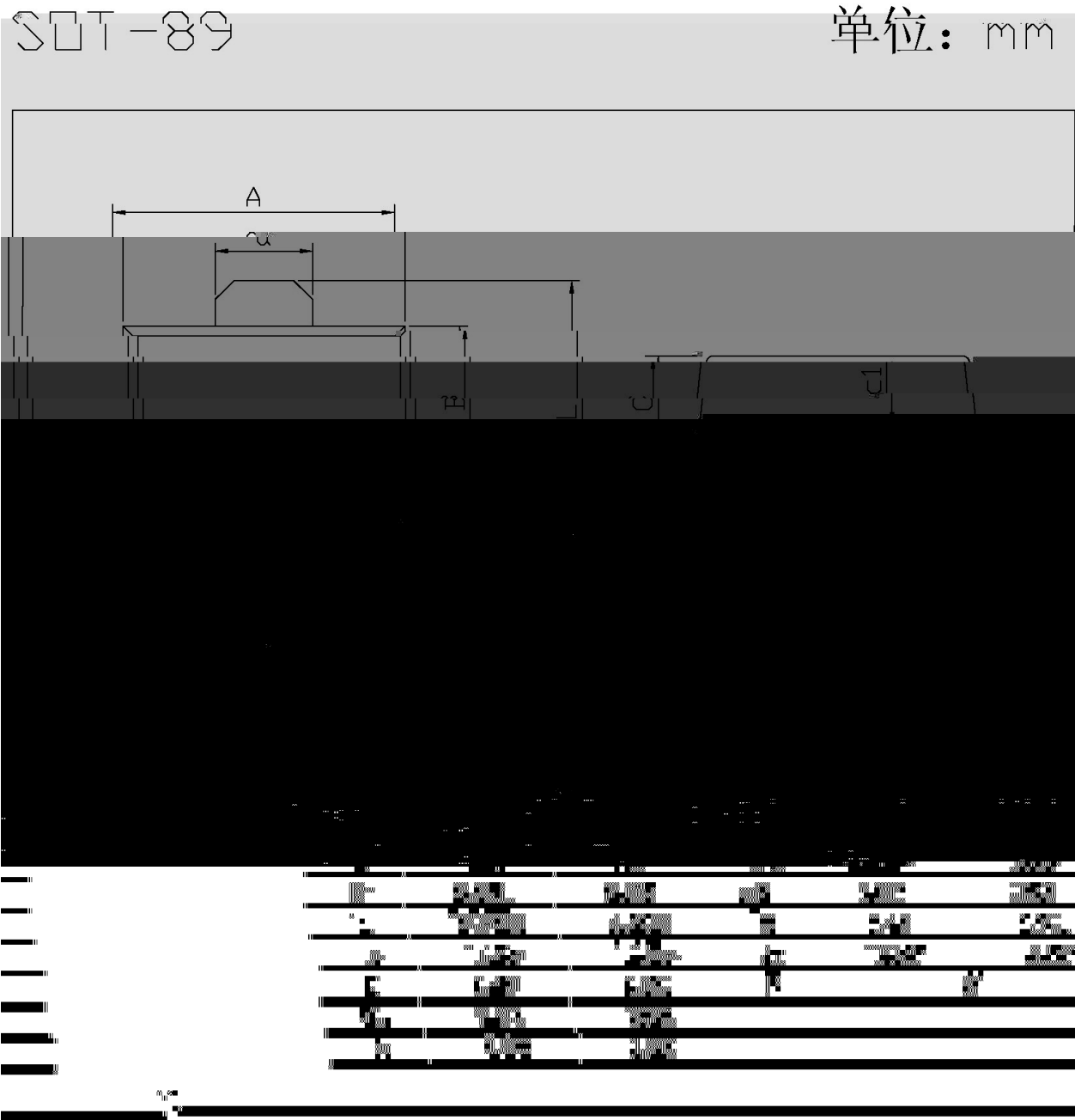
**/ Electrical Characteristics(Ta=25 )**

| Parameter            | Symbol | Test Conditions                        | Min  | Typ | Max  | Unit    |
|----------------------|--------|----------------------------------------|------|-----|------|---------|
| Output voltage       | $V_O$  | $I_O=40mA$ $T_J=25$                    | 11.5 | 12  | 12.5 | V       |
|                      |        | $I_O=1mA$ to 40mA<br>$V_I=14V$ to 27V  | 11.4 | 12  | 12.6 | V       |
|                      |        | $I_O=1mA$ to 70mA $V_I=19V$            | 11.4 | 12  | 12.6 | V       |
| Input regulation     | $V_O$  | $V_I=14.5V$ to 27V $T_J=25$            |      | 55  | 250  | mV      |
|                      |        | $V_I=16V$ to 27V $T_J=25$              |      | 49  | 200  | mV      |
| Ripple rejection     | RR     | $V_I=15V$ to 25V $f=120Hz$<br>$T_J=25$ | 37   | 42  |      | dB      |
| Output regulation    | $V_O$  | $I_O=1mA$ to 100mA<br>$T_J=25$         |      | 22  | 100  | mV      |
|                      |        | $I_O=1mA$ to 40mA<br>$T_J=25$          |      | 13  | 50   | mV      |
| Output noise voltage | $V_N$  | $f=10Hz$ to 100KHz<br>$T_J=25$         |      | 70  |      | $\mu V$ |
| Dropout voltage      | $V_D$  | $T_J=25$                               |      | 1.7 |      | V       |
| Bias current         | $I_Q$  | $T_J=25$                               |      | 4.3 | 6.5  | mA      |
|                      |        | $T_J=125$                              |      |     | 6.0  | mA      |
| Bias current change  | $I_Q$  | $V_I=16V$ to 27V                       |      |     | 1.5  | mA      |
|                      |        | $I_O=1mA$ to 40mA                      |      |     | 0.1  | mA      |

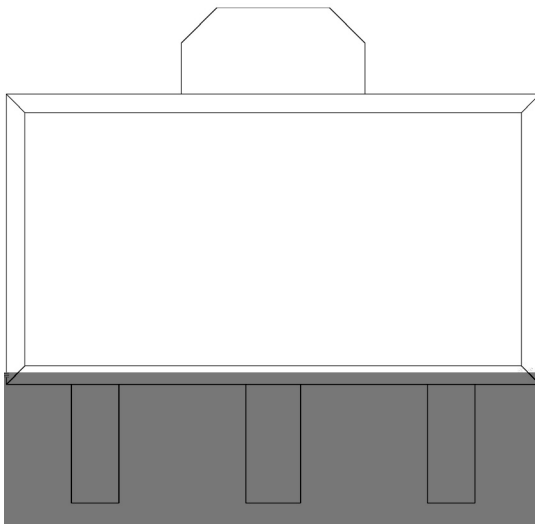
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



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