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Schematic Diagram

Absolute Maximum Ratings

| Parameter | Symbol | Value | Unit |
|---|----------------------|----------------------|------|
| Supply Voltage | V _{CC} | ±18 or 36 | V |
| Differential Input Voltage | V _{I(DIFF)} | 36 | V |
| Input Voltage | V _I | -0.3 to +36 | V |
| Output Short Circuit to GND | - | Continuous | - |
| Power Dissipation | P _D | 570 | mW |
| Operating Temperature KA339/KA339A KA2901 | T _{OPR} | 0 ~ +70 -40 ~ +85 | °C |
| Storage Temperature | T _{STG} | -65 ~ +150 | °C |

Electrical Characteristics (Continued)(V_{CC} = 5V, T_A = 25°C, unless otherwise specified)

| Parameter | Symbol | Conditions | Min. | KA2901 Typ. | Max. | Unit |
|----------------------|-----------------|--|------|----------------|------|------|
| Input Offset Voltage | V _{IO} | V _{O(P)} = 1.4V, R _S = 0 | | | | |

Note:

- KA339 / KA339A: $0 \leq T_A \leq +70^\circ\text{C}$
KA2901: $-40 \leq T_A \leq +85^\circ\text{C}$
- These parameters, although guaranteed, are not 100% tested in production.

Typical Performance Characteristics

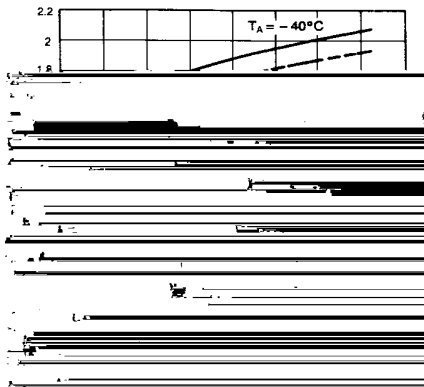


Figure 1. Supply Current vs Supply Voltage

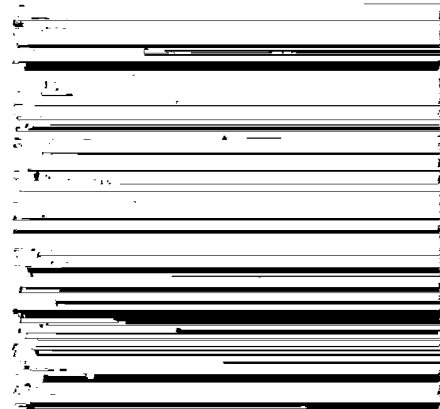


Figure 2. Input Current vs Supply Voltage



Figure 3. Output Saturation Voltage vs Sink Current

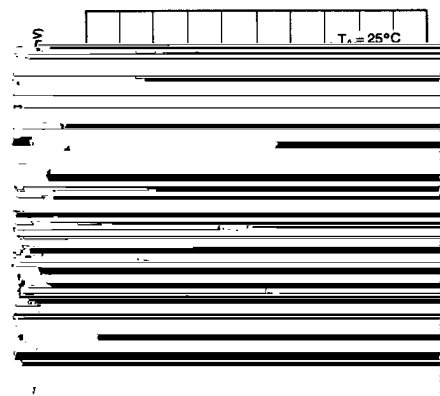


Figure 4. Response Time for Various Input Overdrive-Negative Transition

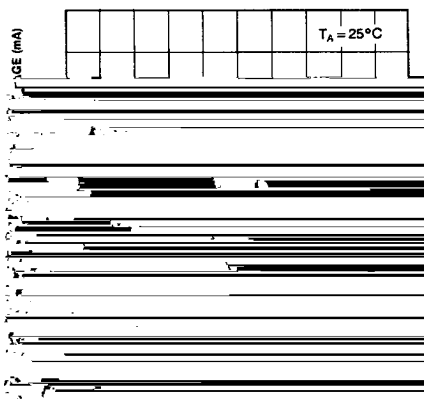
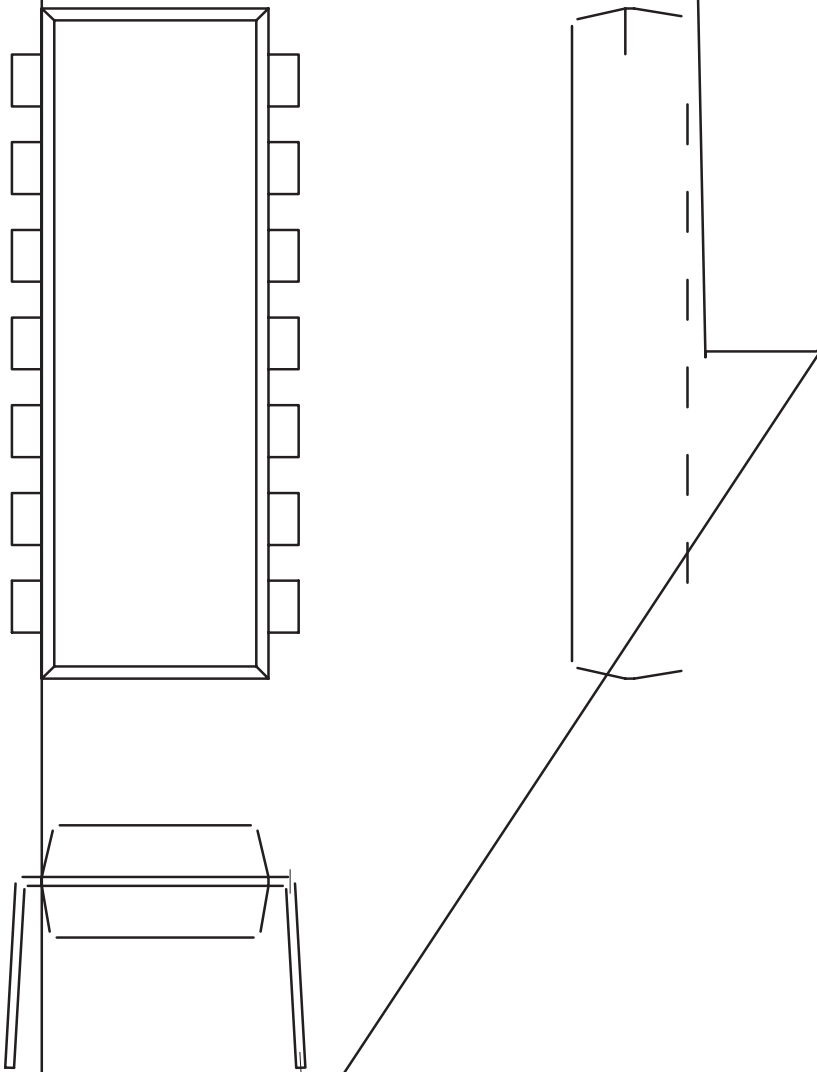


Figure 5. Response Time for Various Input Overdrive-Positive Transition

Mechanical Dimensions

Package

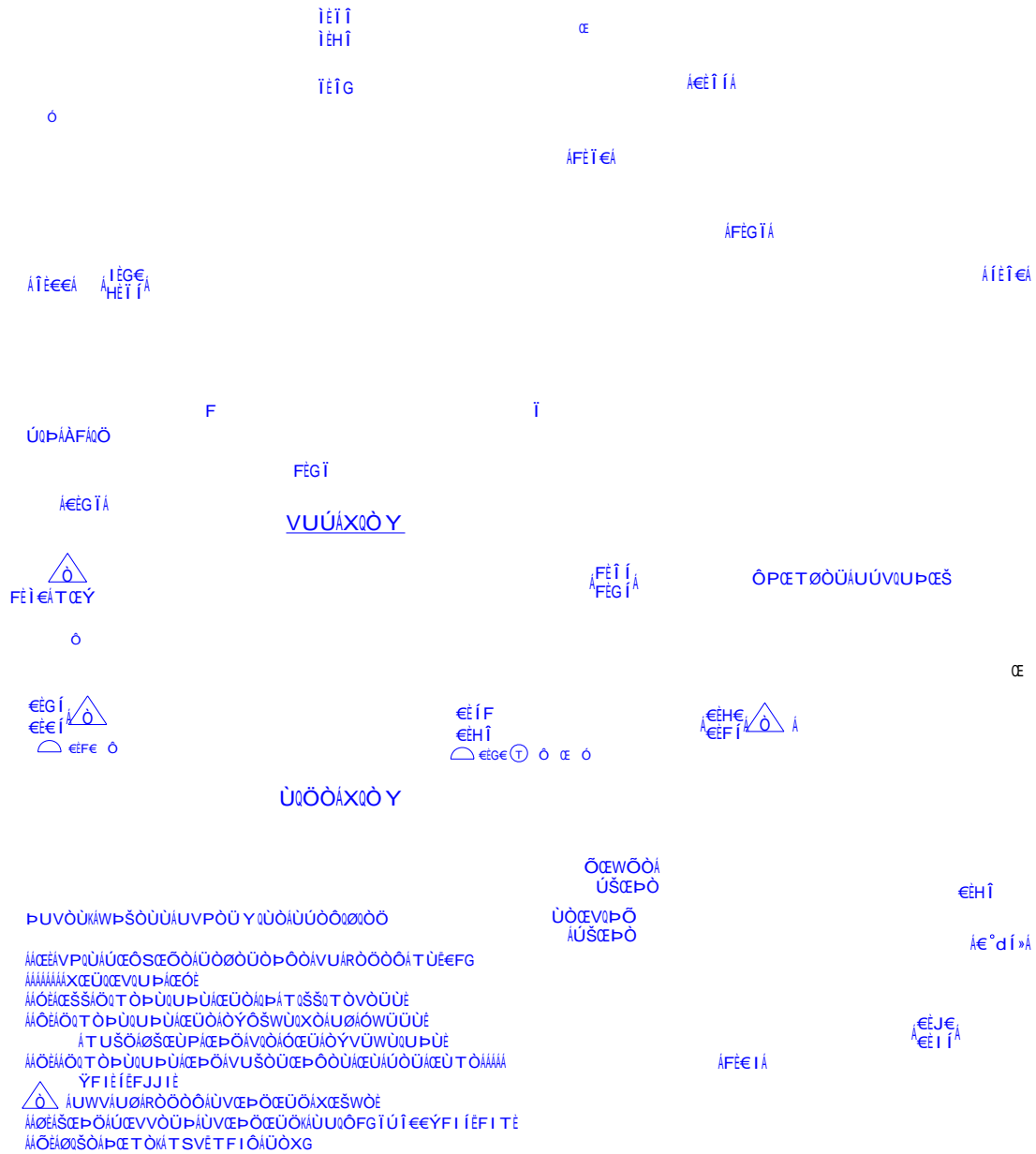
Dimensions in millimeters



Mechanical Dimensions (Continued)

Package

Dimensions in millimeters



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