

The mini logic series features one standard logic gate in a super small package and plays a complimentary role for the input/output signals of microcomputers, gate arrays and so on. The S-75V series realizes high speed operation compatible with LSTTL. The S-75L series can operate between 1.0 V to 3.6 V, making it suitable for small battery-powered portable equipment.

### FEATURES

- Wide operating power supply range: 2.0 V to 5.5 V (S-75V series)  
1.0 V to 3.6 V (S-75L series)
- Low current consumption: 1.0  $\mu$ A max. (5.5 V, 25°C) (S-75V series)
- All inputs have power down protection function
- Super-small package: SC-88A

### APPLICATIONS

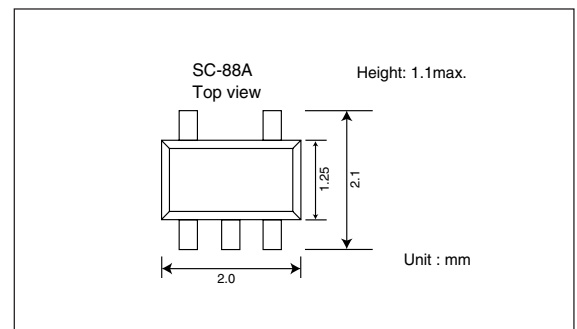
- Cellular phones, PHS, PDAs, cameras, digital cameras
- Camcorders, pagers
- PCs, notebook PCs and peripheral equipment

### SPECIFICATIONS

Series name	VHS series	LV series
Product name	S-75VxxANC	S-75LxxANC
Propagation delay time NAND GATE (C <sub>L</sub> =15pF)	3.7 ns typ. (at V <sub>cc</sub> = 5 V)	7.0 ns typ. (at V <sub>cc</sub> = 3 V)
Operating voltage	2 V to 5.5 V	1 V to 3.6 V
Operating temperature	-40 to +85°C	-40 to +85°C
Output current	I <sub>OH</sub>	-8 mA min. (V <sub>cc</sub> = 4.5 V)
	I <sub>OL</sub>	8 mA min. (V <sub>cc</sub> = 4.5 V)
Package	SC-88A	SC-88A
Function	Product name	Product name
2NAND	S-75V00ANC	S-75L00ANC
2NOR	S-75V02ANC	S-75L02ANC
INV1	S-75V04ANC	S-75L04ANC
INV2	S-75VU04ANC	S-75LU04ANC
2AND	S-75V08ANC	S-75L08ANC
Schmitt INV	S-75V14ANC	S-75L14ANC
2OR	S-75V32ANC	S-75L32ANC
EX-OR	S-75V86ANC	S-75L86ANC

### DIMENSIONS

SC-88A (typ.)



### PIN CONFIGURATIONS AND FUNCTIONS

<p>S-75V00ANC, S-75L00ANC 2-input NAND gate</p> <p><math>Y = A \cdot B</math></p>	<p>S-75V02ANC, S-75L02ANC 2-input NOR gate</p> <p><math>Y = A + B</math></p>	<p>S-75V04ANC, S-75L04ANC Inverter</p> <p><math>Y = \bar{A}</math></p>	<p>S-75VU04ANC, S-75LU04ANC Inverter(unbuffered)</p> <p><math>Y = \bar{A}</math></p>
<p>S-75V08ANC, S-75L08ANC 2-input AND gate</p> <p><math>Y = A \cdot B</math></p>	<p>S-75V14ANC, S-75L14ANC Schmitt trigger inverter</p> <p><math>Y = \bar{A}</math></p>	<p>S-75V32ANC, S-75L32ANC 2-input OR gate</p> <p><math>Y = A + B</math></p>	<p>S-75V86ANC, S-75L86ANC 2-input exclusive OR gate</p> <p><math>Y = \bar{A} \cdot B + A \cdot \bar{B}</math></p>