



I²L DIGITAL
and LINEAR
ARRAY

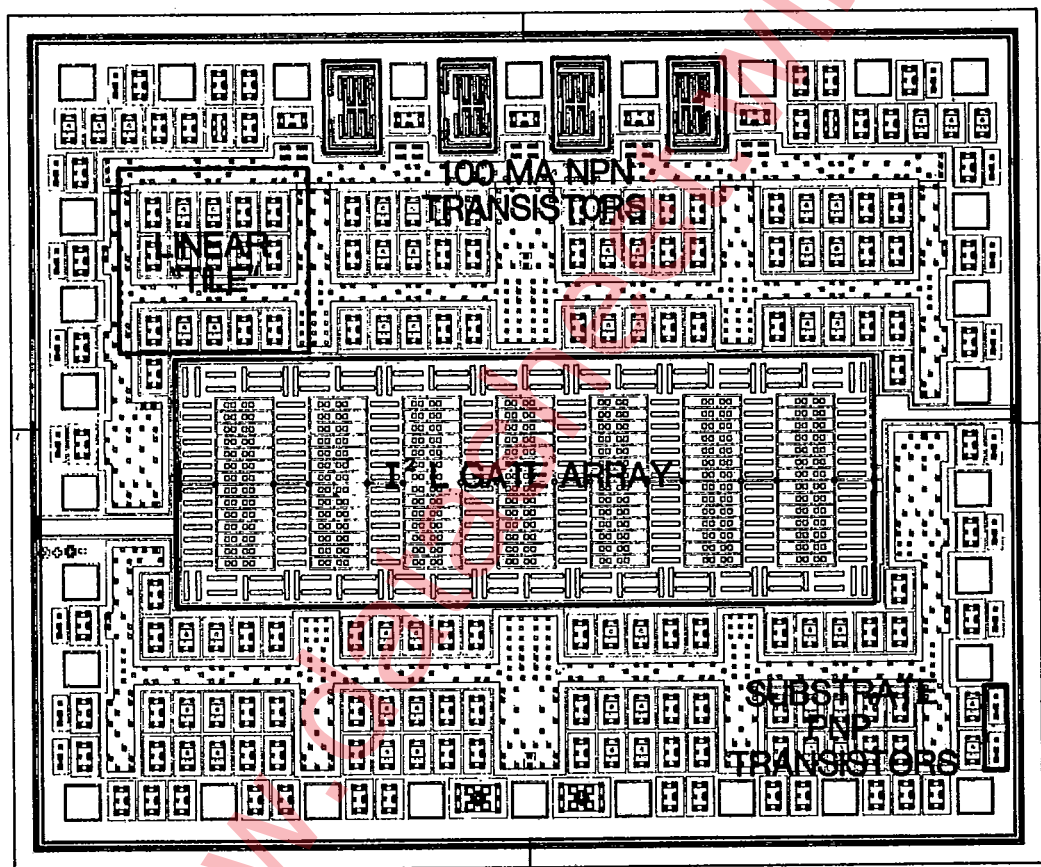
GENESIS™ 1500

T-42-31

GENESIS™ 1500 SEMICUSTOM IC

Intended for single chip integration of complete systems, the GENESIS™ 1500 array provides a combination of digital and linear elements in the form of I²L gates and bipolar components. Included on the chip are 98 gates, 126 NPN transistors, 72 PNP transistors, 462 diffused base resistors (total resistance — 827KΩ) and 2 pinch resistors. The I²L devices are speed-power programmable and can be operated at currents as low as 0.1 microamp per gate. Supply voltage range is 1 to 12 volts

- TOTAL COMPONENTS: 760
- CHIP SIZE (mils): 123 x 140
- BONDING PADS: 30
- OPERATING VOLTAGE: 1V-12V
- I²L GATES: 98
- MAX TOGGLE FREQUENCY: 2 MHz
- NPN TRANSISTORS: 122 SMALL, 4 POWER
- PNP TRANSISTORS: 56 LATERAL, 16 SUBSTRATE
- RESISTORS — 4.8K (56) 600Ω (95)
- 2.4K (70) 270Ω (84)
- 1.2K (147) 135Ω (10)
- 60K Dual Pinch (2)



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