



UNICIP 1000 20 V CUSTOM DESIGN ARRAY

UNICIP 1000 is an IC standard array dedicated to customer original (or model based) projects . IC's like TCA 520N , FZH 100 series , TCA 105N , β U 1010N , BB 342 or β U 1014N were processed using UNICIP 1000 .

The customer can design by his own the interconnection mask of a new IC, using a 250 times enlarged layout sheet. This step is similar to a P.C. board layout. The basic component set of UNICIP 1000 (transistors, diodes, resistors) is packaged in 5 IC's (β U 1001 to β U 1005) , being dedicated to IC's function simulation .

UNICIP 1000 component list :

- 10 mA NPN transistors	28 pcs.
- 150 mA NPN transistors	2 pcs.
- Lateral PNP transistors	7 pcs.
- Vertical PNP transistors	3 pcs.
- 7.3 Zener diode	1 pc.
- Base-diffusion resistors :	
- 0.25 kohms	2 pcs.
- 0.5 kohms	21 pcs.
- 1 kohm	20 pcs.
- 2 kohms	36 pcs.
- 4 kohms	12 pcs.
- 35 kohms Pinch resistors	2 pcs.
- Pads for pin connection	14 pcs.

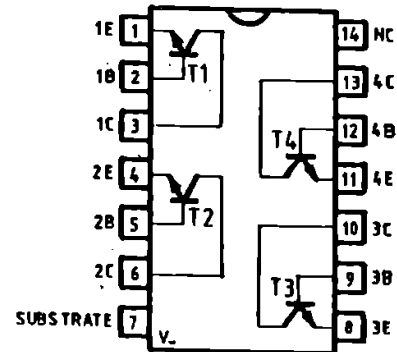
Features

- Supply voltage	max.	20 V
- NPN transistor current gain (IC = 2 mA)	typ.	150 -
- Lateral PNP transistor current gain (IC=0.2mA)	typ.	10 -
- Base-diffusion resistor tolerance	max.	25 %
- Pinch resistor tolerance	-50 ... +100 %	
- Zener diode voltage drift	typ.	0.01 %/oC
- Chip temperature	max.	125 oC
- Power dissipation (depending on package type).	0.3 ... 1.3 W	
- Operating temperature	depending on customer project	

UNICIP 1000 - design kit

4 NPN 10 mA transistors

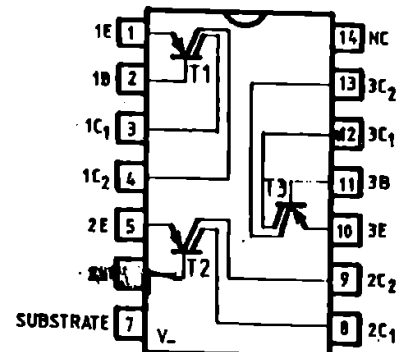
β U 1001



PACKAGE TO-116 / TOP VIEW

3 lateral PNP transistors

β U 1002



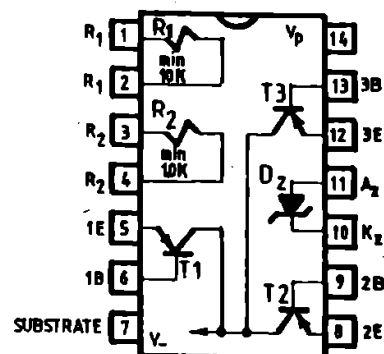
PACKAGE TO-116 / TOP VIEW

3 vertical PNP transistors

2 Pinch resistors

1 Zener diode

β U 1003



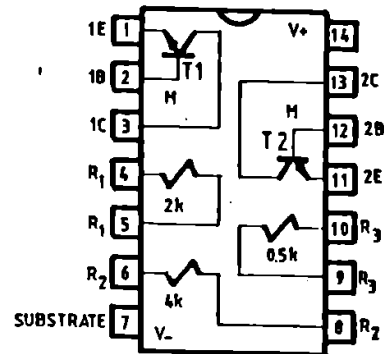
PACKAGE TO-116 / TOP VIEW



UNICIP 1000 - design kit

2 NPN 150 mA transistors
3 base-diffusion resistors

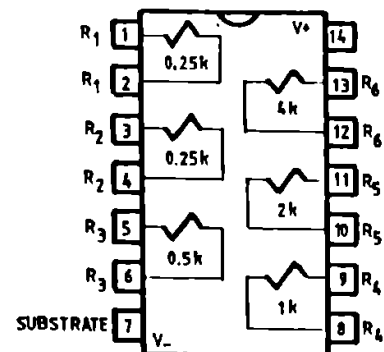
β U 1004



PACKAGE TO-116 / TOP VIEW

6 base-difusion resistors

β U 1005



PACKAGE TO-116 / TOP VIEW