

UNICIP 2000
40 V CUSTOM DESIGN ARRAY

UNICIP 2000 is a MSI linear standard array recommended for custom designed industrial applications. Processed in a 40 volts supply technology, UNICIP 2000 contains over 170 electronic components : 104 resistors with over 350 kohms total value, 61 transistors (including 4 NPN 300 mA power drivers), 6 volts Zener diodes, etc.

Same as the UNICIP 1000 array, the interconnection mask of the UNICIP 2000 can be designed by the customer on a 250 times enlarged sheet. The basic component set of the UNICIP 2000 array is packaged in 3 IC's (β U 2001, β U 2002, β U 2003) and is dedicated to model developping.

UNICIP 1000 component list :

- 10 mA NPN transistors	38 pcs.
- 300 mA NPN transistors	4 pcs.
- 2-collector PNP-lateral transistors	12 pcs.
- 3-collector PNP-lateral transistors	1 pc.
- Vertical PNP transistors	6 pcs.
- J-FET current generator	1 pc.
- 7 Zener diodes	2 pcs.
- Base-diffusion resistors :	
- 0.5 kohms	16 pcs.
- 1 kohm	16 pcs.
- 2 kohms	18 pcs.
- 4 kohms	28 pcs.
- 8 kohms	22 pcs.
- 35 kohms Pinch resistors	4 pcs.
- 30 pF capacitors	2 pcs.
- Pads for pin connection	16 pcs.

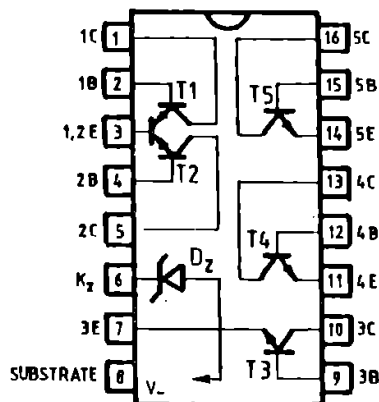
Features

- Supply voltage	max.	40 V
- NPN power transistor collector resistance (IC = 200 mA)	typ.	5 ohms
- NPN transistor current gain (IC = 2 mA)	typ.	100 -
- Lateral PNP transistor current gain (IC=0.2mA)	typ.	10
- Base-diffusion resistor tolerance	max.	25 %
- Pinch resistor tolerance	-50 ...	+100 %
- Zener voltage	5.7 ...	6.3 V
- Chip temperature	max:	125 oC
- Power dissipation (depending on package type) and external heatsink)	0.3 ...	1.3 W
- Operating temperature	depending on customer project	

UNICIP 2000 - design kit

5 NPN 10 mA transistors
1 Zener diode

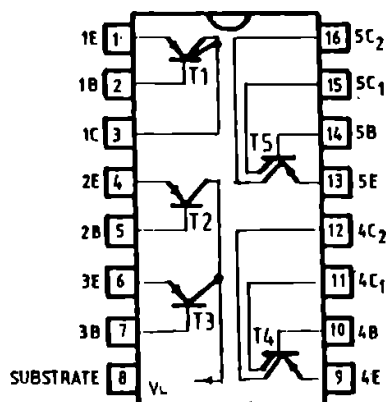
β U 2001



PACKAGE MP-117 / TOP VIEW

3 lateral PNP transistors
2 vertical PNP transistors

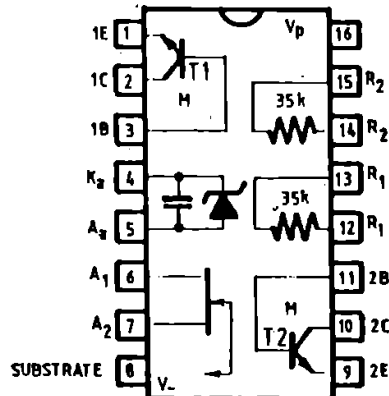
β U 2002



PACKAGE MP-117 / TOP VIEW

2 NPN 300 mA transistors
1 J-FET current generator
2 Pinch resistors
1 capacitor

β U 2003



PACKAGE MP-117 / TOP VIEW