

BA 726
TEMPERATURE CONTROLLED TRANSISTOR ARRAY

The BA 726 is an integrated circuit which consists of a transistor array and a circuit built to control the temperature of the common monolithic substrate. The internal circuit for thermal control maintains the temperature of the chip independently from the variations of ambient temperature. Two n-p-n independent transistors and a mirror of current are well suited to a wide variety of applications, providing the very significant inherent integrated circuit advantages of close electrical and thermal matching.

Features

For the integrated circuit

- Operating temperature	0 ... +70 °C
- Storage temperature	-55 ... +125 °C
- Power dissipation	max. 500 mW

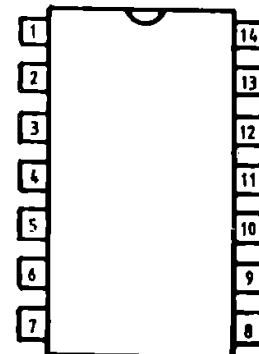
For each transistor

- Collector-emitter voltage	max. 40 V
- Collector-base voltage	max. 40 V
- Emitter-base voltage	max. 5 V
- Collector current	max. 5 mA
- Base current	max. 1.2 mA
- Current gain of one transistor	50 ... 600

For the thermostat

- Supply current	10 ... 20 mA
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- | 1. B1
- | 2. NC
- | 3. B2
- | 4. E2
- | 5. C2
- | 6. V-
- | 7. NC
- | 8. R adj.
- | 9. V+
- | 10. C1
- | 11. E1
- | 12. E3, E4
- | 13. B3, B4, C4
- | 14. C3



PACKAGE TO-116 / TOP VIEW

Not recommended for new design



BA 726X

TEMPERATURE CONTROLLED TRANSISTOR ARRAY

The BA 726X is an integrated circuit which consists of a transistor array and a circuit built to control the temperature of the common monolithic substrate. The internal circuit for thermal control maintains the temperature of the chip independently from the variations of ambient temperature. Two n-p-n independent transistors are well suited to a wide variety of applications, providing the very significant inherent integrated circuit advantages of close electrical and thermal matching.

Features

For the integrated circuit

- Operating temperature	0 ... +70 °C
- Storage temperature	-55 ... +125 °C
- Power dissipation	max. 500 mW

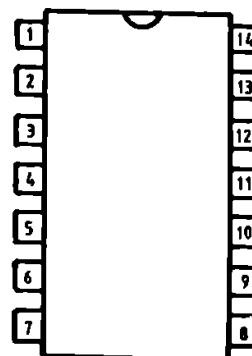
For each transistor

- Collector-emitter voltage	max. 40 V
- Collector-base voltage	max. 40 V
- Emitter-base voltage	max. 5 V
- Collector current	max. 5 mA
- Base current	max. 2 mA
- Current gain of one transistor	50 ... 600 -

For the thermostat

- Supply current	10 ... 20 mA
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- 1. B1
- 2. NC
- 3. B2
- 4. E2
- 5. C2
- 6. V-
- 7. NC
- 8. R adj.
- 9. V+
- 10. C1
- 11. E1
- 12. NC
- 13. NC
- 14. NC



PACKAGE TO-116 / TOP VIEW