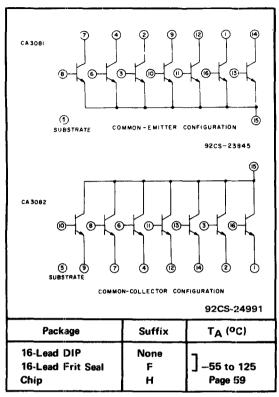
General-Purpose High-Current n-p-n Transistor Arrays

CA3081 CA3082



File No. 480*

Applications and Features

7-segment incandescent displays (e.g. RCA NUMITRON DR2000 Series) Light-Emitting-Diodes (LED) displays (e.g. RCA 40736R)

7 transistors permit a wide range of applications in either a commonemitter (CA3081) or common-collector (CA3082) configuration

High Ic: 100 mA max.

Low VCE sat (at 50 mA): 0.4V typ. Relay control $h_{FF} = 40 \text{ min at } 1_{C} = 50 \text{ mA}$ Thyristor firing

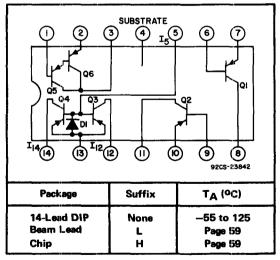
Maximum Ratings at TA = 25°C

The following maximum ratings apply for each transistor in	the array.
Collector-to-Emitter Voltage 15	٧
Collector-to-Base Voltage 20	V
Collector-to-Substrate* Voltage 20	V
Emitter-to-Base Voltage 5	V
Collector Current	mΑ
Power Dissipation 500	mW

^{*}The collector of each transistor is isolated from the substrate by an integral diode.

General-Purpose p-n-p Transistor Array

CA3084



File No. 482*

Applications and Features

Matched transistor pair (Q1 & Q2) General use in systems having VIO (VBE matched): ±6 mV max. I₁₀ (at 100μA): ±0.6 μA hpe = 100 min, at lp = 0.1 mA

Wide operating-current range Low noise figure: -3.2 dB typ. at 1 kHz

Darlington transistor pair (Ω5

Current-mirror pair (Q3 & Q4)

low-power and low-frequency requirements

Differential amplifiers

Temperature-compensated amplifiers

Active loads for differential amplifiers using n-p-n transistors (current mirror)

Complementary uses with RCA n-p-n transistor arrays

Maximum Ratings at TA = 25°C

The following maximum ratings apply for each transistor in	the array:
Collector-to-Emitter Voltage	V
Collector-to-Base Voltage	V
Collector-to-Substrate* Voltage40	V
Emitter-to-Base Voltage	V
Collector Current	mA
Power Dissipation 200	mW

^{*}The collector of each transistor is isolated from the substrate by an integral diode.