

**MINI PRINTER DRIVER**  
**NPN SILICON EPITAXIAL TRANSISTOR ARRAY**

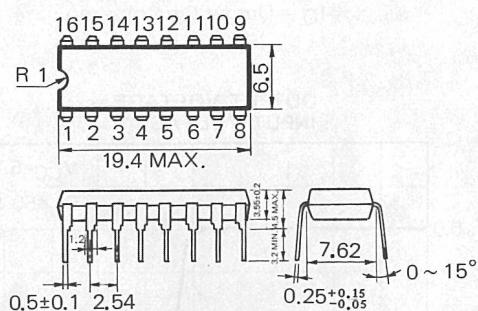
**DESCRIPTION**

The  $\mu$ PA79C is a monolithic array of seven transistors.

This device is especially suited for driving low supply voltage printer with up to 0.1 A output current per unit.

**PACKAGE DIMENSIONS**

in millimeters



**FEATURES**

- Low Saturation Voltage  $\rightarrow V_{CE(sat)} \leq 0.6$  V
- High DC Current Gain  $\rightarrow hFE \geq 1000$
- Reverse Bias Protected Inputs
- Transient Protected Outputs
- Package is 16 pin PLASTIC DIP

**ABSOLUTE MAXIMUM RATINGS**

Maximum Voltages and Currents ( $T_a = 25$  °C)

Supply Voltage	$V_{CC}$	20	V
Input Voltage	$V_I$	-40 to + 30	V
Output Voltage	$V_O$	20	V
Continuous Output Current	$I_C(DC)^{**}$	200	mA/unit
Peak Output Current	$I_C^*$	150	mA/unit
Maximum Power Dissipation			
Total Power Dissipation	$P_d$	550	mW/package
Maximum Temperature			
Operating Temperature	$T_{opt}$	-25 to + 75	°C
Storage Temperature	$T_{stg}$	-40 to +125	°C

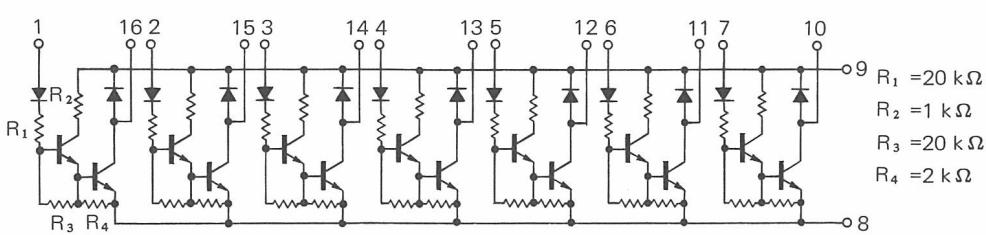
\*\*DC (1 unit)

\* PW  $\leq$  30 ms, duty cycle  $\leq$  10 % (The same current for all units)

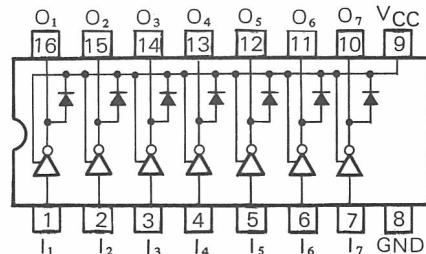
**ELECTRICAL CHARACTERISTICS ( $T_a = 25$  °C)**

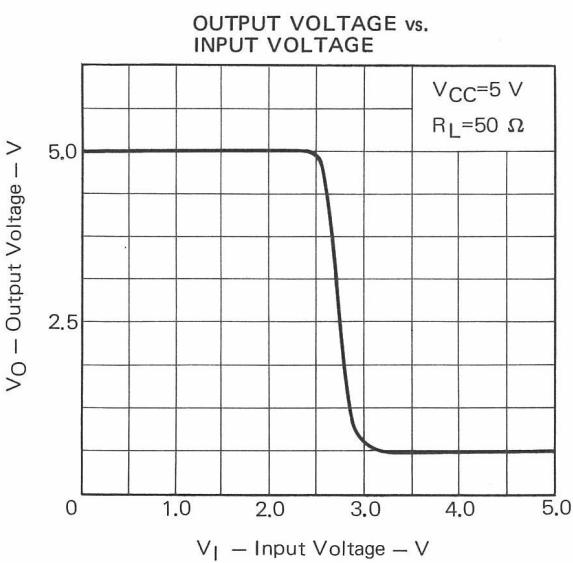
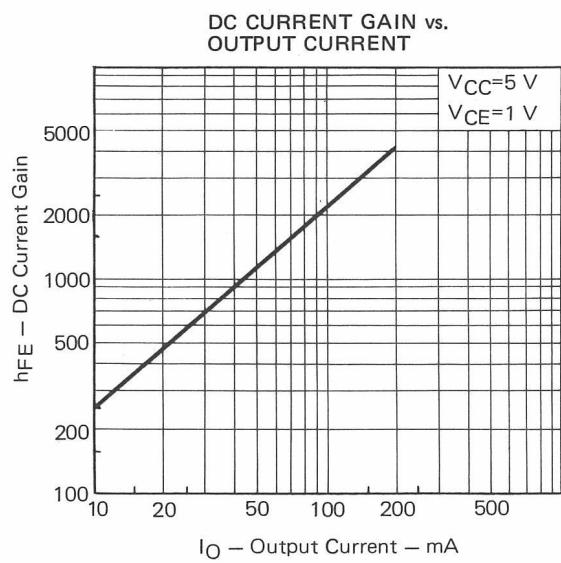
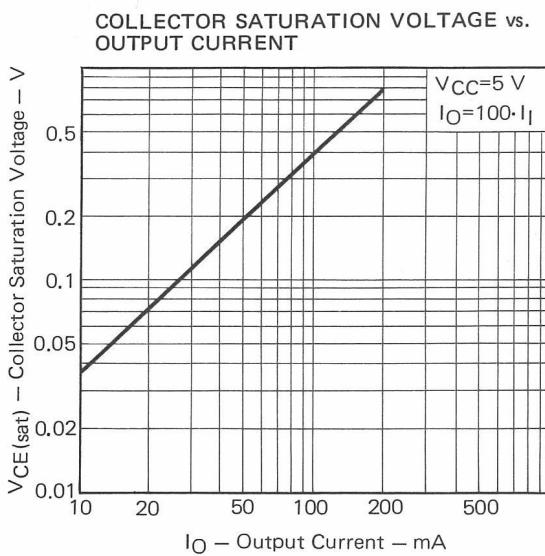
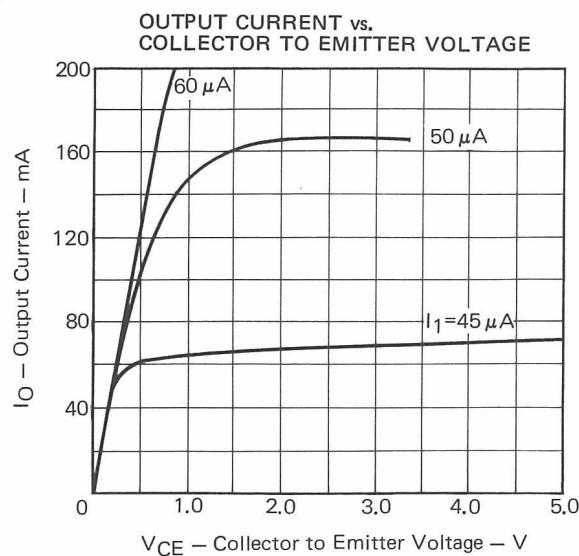
CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Output Leakage Current	$I_{L1}$			10	$\mu$ A	$V_{CC}=20$ V, $V_I=0$
DC Current Gain	$hFE$	1000	2500			$V_{CC}=5$ V, $V_{CE}=1$ V, $I_O=120$ mA
Collector Saturation Voltage	$V_{CE(sat)}$			0.6	V	$V_{CC}=5$ V, $I_O=120$ mA, $I_I=0.2$ mA
Output Leakage Current	$I_{L2}$			10	$\mu$ A	$V_{CC}=V_{CE}=5$ V, $V_I=1.5$ V
Input Voltage	$V_I$			4.0	V	$V_{CC}=5$ V, $V_{CE}=1$ V, $I_O=120$ mA
Forward Voltage (Clamp Diode)	$V_F$			2.0	V	$I_F=120$ mA

**EQUIVALENT CIRCUIT**



**CONNECTION DIAGRAM (Top View)**



**TYPICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )****V<sub>O</sub>-V<sub>I</sub> TEST CIRCUIT**