TRANSISTOR ARRAY
μPA67C

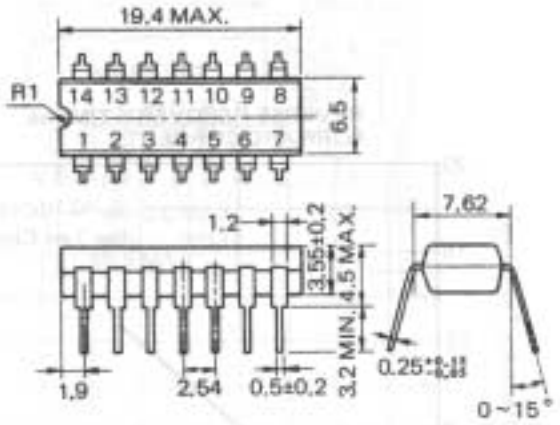
MINI PRINTER DRIVER
NPN SILICON EPITAXIAL DARLINGTON TRANSISTOR ARRAY

DESCRIPTION

The μPA67C is a monolithic array of six darlington transistors.
This device is especially suited for driving miniprinter hummer with up to 0.1 A output current per unit.

PACKAGE DIMENSIONS

in millimeters



FEATURES

- High DC Current Gain
- Package is 14 pin PLASTIC DIP.

ABSOLUTE MAXIMUM RATINGS

Maximum Voltages and Currents (Ta = 25 °C)

Output Voltage	V_O	30	V
Input Voltage	V_I	−40 to + 30	V
Peak Output Current	I_O**	150	mA/unit
Continuous Collector Current	I_O*	70	mA/unit
Maximum Power Dissipation			
Total Power Dissipation	Pd	550	mW/package
Maximum Temperature			
Operating Temperature	T_{opt}	−25 to + 75	°C
Storage Temperature	T_{stg}	−40 to +125	°C

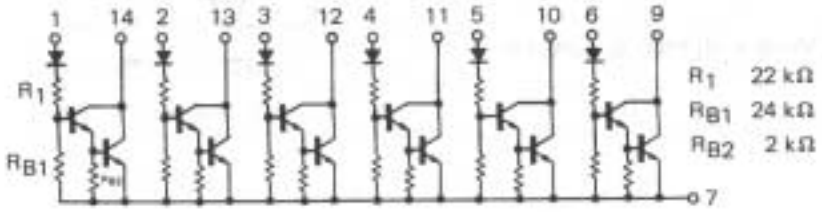
** PW=20 ms, duty cycle≦10 % (All units turned on)

* DC (All units turned on)

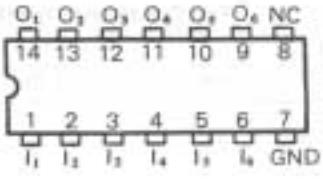
ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Output Leakage Current	I_L			10	μA	V_{CE}=20 V, V_I=0
Output On Current	I_{ON}	100			mA	V_{IH}≧5.0 V, V_{CE}=2.0 V
Output Off Current	I_{OFF}			10	μA	V_{IL}≦1.0 V, V_{CE}=20 V
Input Current	I_I			1.3	mA	V_I=20 V, V_{CE}=0
Input Reverse Current	$I_{I(R)}$			−10	μA	V_I=−30 V, V_{CE}=0
Low Level Output Voltage	V_{OL}			1.3	V	V_I=13 V, I_O=100 mA

EQUIVALENT CIRCUIT



CONNECTION DIAGRAM (Top View)



I : Input (Base)
O : Output (Collector)
GND : (Common Emitter)