查询UN206供应商 Small Signal Transistor Arrays

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## **UNA0206** (UN206)

### Transistor array to drive the small motor

#### Features

- Small and lightweight
- Low power consumption (low V<sub>CE(sat)</sub> transistor used)
- Protective diode incorporated (C-E monolithic)
- Low-voltage drive

Applications Video cameras Cameras

Portable CD players

# Unit: mm 0.2 5±0.0 .7±0.3 SO10-G1 Package

#### Absolute Maximum Ratings (Ta=25±2°C)

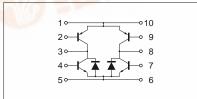
Symbol	Ratings	Unit
V <sub>CBO</sub>	±20	V
V <sub>CEO</sub>	±18	V
V <sub>EBO</sub>	±5	V
I <sub>C</sub>	±1	А
P <sub>T</sub> *	0.5	W
Tj	150	°C
T <sub>stg</sub>	-55 to +150	°C
	$V_{CBO}$ $V_{CEO}$ $V_{EBO}$ $I_C$ $P_T^*$ $T_j$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Small motor drive circuits in general for electronic equipment.

Note: ± marks used above: +: NPN part, -: PNP part

\*  $T_C = 25^{\circ}C$  only when the elements are active

#### Internal Connection



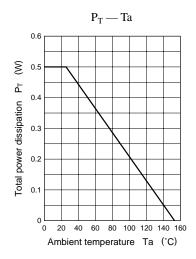


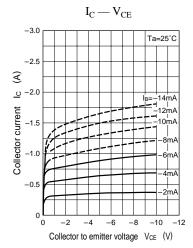
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I <sub>CBO</sub>	(NPN) $V_{CB} = 20V, I_E = 0$			1	- μΑ
		(PNP) $V_{CB} = -20V, I_E = 0$			-1	
Collector cutoff current	I <sub>CER</sub>	(NPN) $V_{CE} = 18V$ , $R_{BE} = 100k\Omega$			10	- μΑ
		(PNP) $V_{CE} = -18V, R_{BE} = 100k\Omega$			-10	
Collector to base voltage	V <sub>CBO</sub>	(NPN) $I_{C} = 10 \mu A$ , $I_{E} = 0$	20			- v
		(PNP) $I_{C} = -10 \mu A, I_{E} = 0$	-20			
Collector to emitter voltage	V <sub>CEO</sub>	(NPN) $I_{C} = 1mA, I_{B} = 0$	18			v
		(PNP) $I_{C} = -1mA, I_{B} = 0$	-18			
Emitter to base voltage	V <sub>EBO</sub>	(NPN) $I_E = 10 \mu A$ , $I_C = 0$	5			v
		(PNP) $I_E = -10\mu A$ , $I_C = 0$	-5			
Forward voltage (DC)	V <sub>F</sub>	$I_F = 1A$			1.5	V
Forward current transfer ratio	h <sub>FE1</sub>	(NPN) $V_{CE} = 2V, I_C = 0.5A^*$	90		360	
		(PNP) $V_{CE} = -2V, I_C = -0.5A^*$	90		360	
Forward current transfer ratio	h <sub>FE2</sub>	(NPN) $V_{CE} = 2V, I_C = 1.5A*$	50			
		(PNP) $V_{CE} = -2V, I_C = -1.5A^*$	50			
Collector to emitter saturation voltage	V <sub>CE(sat)1</sub>	(NPN) $I_{C} = 0.3A, I_{B} = 10mA$			0.2	v
		(PNP) $I_C = -0.3A, I_B = -10mA$			- 0.2	
Collector to emitter saturation voltage	V <sub>CE(sat)2</sub>	(NPN) $I_{C} = 0.7A, I_{B} = 10mA$			0.6	- V
		(PNP) $I_C = -0.7A, I_B = -10mA$			- 0.6	
Transition frequency	f <sub>T</sub>	(NPN) $V_{CB} = 6V$ , $I_E = 50mA$ , $f = 200MHz$		150		MHz
		(PNP) $V_{CB} = -6V$ , $I_E = -50mA$ , $f = 200MHz$		200		
Collector output capacitance	C <sub>ob</sub>	(NPN) $V_{CB} = 6V, I_E = 0, f = 1MHz$		20		- pF
		(PNP) $V_{CB} = -6V$ , $I_E = 0$ , $f = 1MHz$		40		

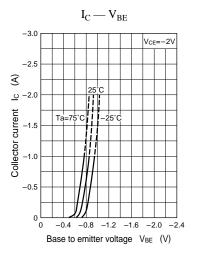
#### Electrical Characteristics (Ta=25±2°C)

\*Pulse measurement

#### Characteristics charts of PNP transistor block

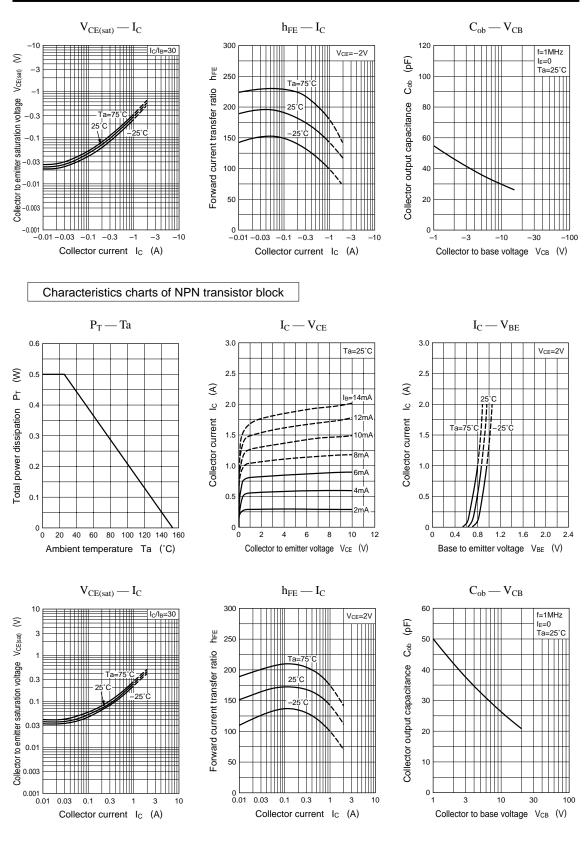






#### Small Signal Transistor Arrays

#### UNA0206



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