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Panasonic  
组件

## Small Signal Transistor Arrays

# UN227

Transistor array to drive the small motor

### ■ Features

- Small and lightweight
- Low power consumption
- Low-voltage drive
- With 8 elements incorporated

### ■ Applications

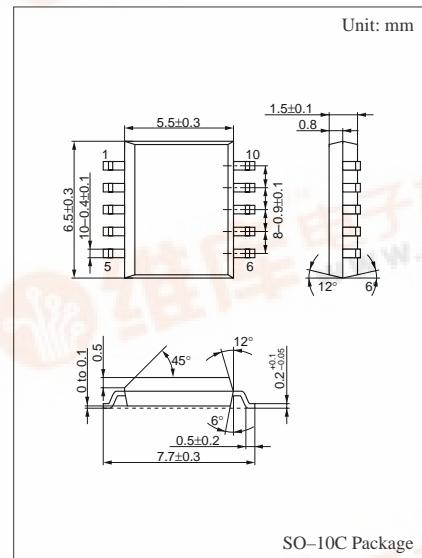
- For motor drives
- Small motor drive circuits in general

### ■ Absolute Maximum Ratings (Ta=25±3°C)

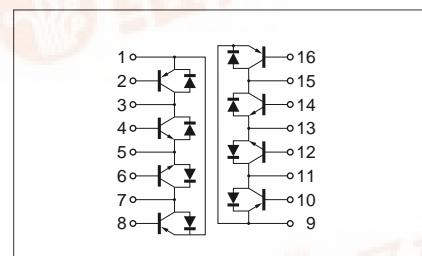
Parameter	Symbol	Ratings	Unit
Collector to base voltage	V <sub>CBO</sub>	±10	V
Collector to emitter voltage	V <sub>CEO</sub>	±10	V
Emitter to base voltage	V <sub>EBO</sub>	±7	V
Collector current	I <sub>C</sub>	±1.5	A
Peak collector current	I <sub>CP</sub>	±2	A
Total power dissipation	P <sub>T</sub> *	0.5	W
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

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

\* T<sub>C</sub> = 25°C only when the elements are active



### Internal Connection



### ■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	$V_{CBO}$	(NPN) $I_C = 10\mu A, I_E = 0$	10			V
		(PNP) $I_C = -10\mu A, I_E = 0$	-10			
Collector to emitter voltage	$V_{CEO}$	(NPN) $I_C = 1mA, I_B = 0$	10			V
		(PNP) $I_C = -1mA, I_B = 0$	-10			
Emitter to base voltage	$V_{EBO}$	(NPN) $I_E = 10\mu A, I_C = 0$	7			V
		(PNP) $I_E = -10\mu A, I_C = 0$	-7			
Collector cutoff current	$I_{CBO}$	(NPN) $V_{CB} = 7V, I_E = 0$			1	$\mu A$
		(PNP) $V_{CB} = -7V, I_E = 0$			-1	
Collector cutoff current	$I_{CEO}$	(NPN) $V_{CE} = 10V, I_B = 0$			2	$\mu A$
		(PNP) $V_{CE} = -10V, I_B = 0$			-2	
Forward current transfer ratio	$h_{FE}$	(NPN) $V_{CE} = 1V, I_C = 400mA^*$	200		700	
		(PNP) $V_{CE} = -1V, I_C = -400mA^*$	200		700	
Collector to emitter saturation voltage	$V_{CE(sat)}$	(NPN) $I_C = 1A, I_B = 25mA^*$			0.25	V
		(PNP) $I_C = -1A, I_B = -25mA^*$			-0.35	
Transition frequency	$f_T$	(NPN) $V_{CB} = 6V, I_E = -50mA, f = 200MHz$	120			MHz
		(PNP) $V_{CB} = -6V, I_E = 50mA, f = 200MHz$	120			
Collector output capacitance	$C_{ob}$	(NPN) $V_{CB} = 6V, I_E = 0, f = 1MHz$		25		pF
		(NPN) $V_{CB} = -6V, I_E = 0, f = 1MHz$		35		
Forward voltage	$V_F$	(NPN) $I_F = 0.5A$			1.3	V
		(PNP) $I_F = -0.5A$			-1.3	

\*Pulse measurement