Panasonic

NP04501

Silicon NPN epitaxial planar type

For general amplification

■ Features

- Two elements incorporated into one package (Each transistor is separated)
- SSS Mini type 6-pin package, reduction of the mounting area and assembly cost by one half
- Maximum package height (0.4 mm) contributes to develop thinner equipments

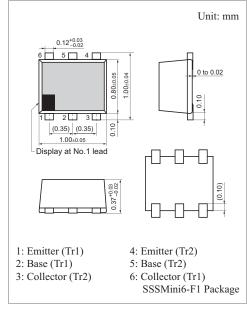
■ Basic Part Number

■ 2SD0601A×2

■ Absolute Maximum Ratings $T_a = 25$ °C

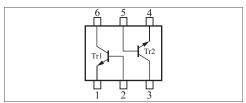
Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	60	V	
Collector-emitter voltage (Base open)	V _{CEO}	50	V	
Emitter-base voltage (Collector open)	V_{EBO}	7	V	
Collector current	I_{C}	100	mA	
Peak collector current	I_{CP}	200	mA	
Total power dissipation *	P_{T}	125	mW	
Junction temperature	T _j	125	°C	
Storage temperature	T _{stg}	-55 to +125	°C	

Note) * : Measuring on substrate at 17 mm \times 10 mm \times 1 mm



Marking Symbol: 5H

Internal Connection



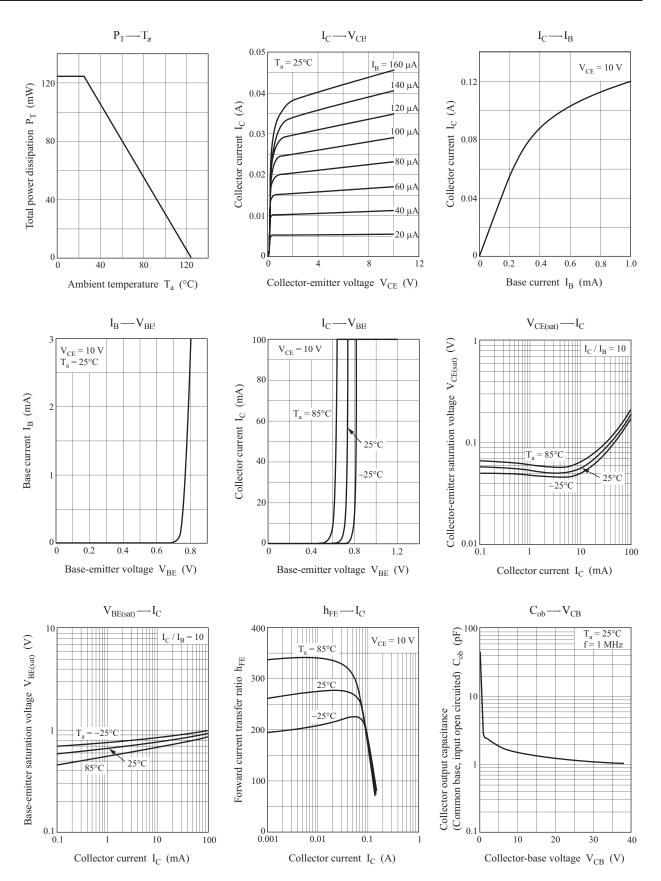
■ Electrical Characteristics $T_a = 25$ °C±3°C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \ \mu A, I_{\rm E} = 0$	60			V
Collector-emitter voltage (Base open) *	V _{CEO}	$I_{CI} = 2 \text{ mA}, I_{B} = 0$	50			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	7			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = 20 \text{ V}, I_{E} = 0$			0.1	μА
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CH} = 10 \text{ V, } I_B = 0$			100	μΑ
Forward current transfer ratio	h_{FE}	$V_{CH} = 10 \text{ V}, I_{C} = 2 \text{ mA}$	180		390	
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm Cl} = 100 \text{ mA}, I_{\rm B} = 10 \text{ mA}$			0.3	V
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = 10 \text{ V}, I_{H} = 0, f = 1 \text{ MHz}$		3.5		pF
Transition frequency	f_T	$V_{CB} = 10 \text{ V}, I_{H} = -2 \text{ mA}, f = 200 \text{ MHz}$		150		MHz

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Pulse measurement

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