UP04501

Silicon NPN epitaxial planar type

For general amplification

Features

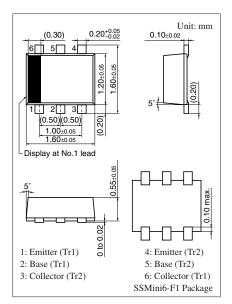
- Two elements incorporated into one package (Each transistor is separated)
- Reduction of the mounting area and assembly cost by one half

Basic Part Number

• 2SD0601A × 2

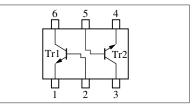
Absolute Maximum Ratings $T_a = 25^{\circ}C$

0			
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	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C



Marking Symbol: 5H

Internal Connection

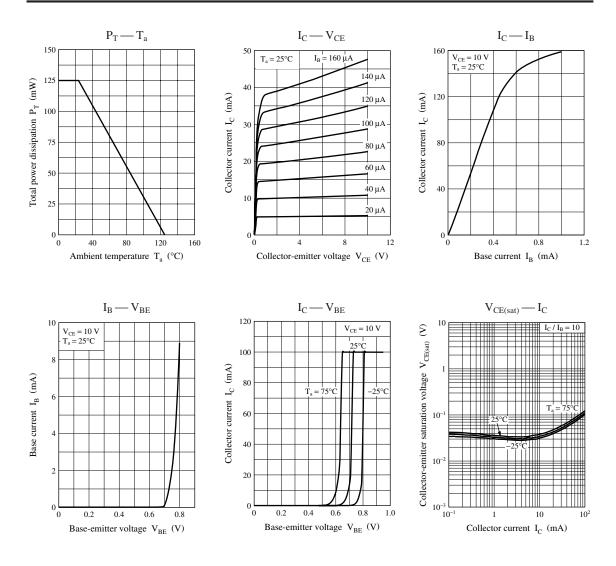


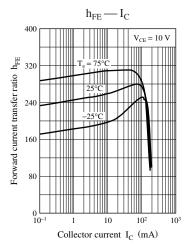
Parameter Symbol Conditions Min Тур Max Unit Collector-base voltage (Emitter open) V_{CBO} $I_{C} = 10 \ \mu A, I_{E} = 0$ 60 v Collector-emitter voltage (Base open) V_{CEO} $I_C = 2 \text{ mA}, I_B = 0$ 50 V $I_{E} = 10 \; \mu A, \; I_{C} = 0$ 7 v Emitter-base voltage (Collector open) VEBO $V_{CB} =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

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

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

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