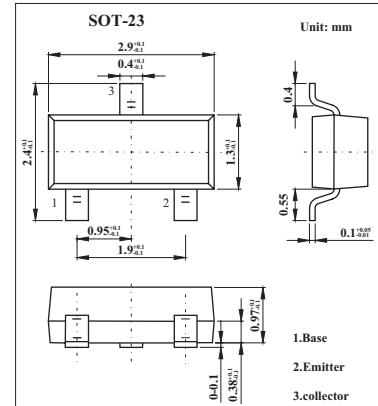


## 2SD601A

### ■ Features

- High forward current transfer ratio hFE.
- Low collector to emitter saturation voltage V<sub>CE(sat)</sub>.
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.



### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V <sub>CBO</sub>	60	V
Collector-emitter voltage	V <sub>C EO</sub>	50	V
Emitter-base voltage	V <sub>EBO</sub>	7	V
Collector current	I <sub>C</sub>	100	mA
Peak collector current	I <sub>CP</sub>	200	mA
Collector power dissipation	P <sub>C</sub>	200	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base voltage	V <sub>CBO</sub>	I <sub>C</sub> = 20 μA, I <sub>E</sub> = 0	60			V
Collector-emitter voltage	V <sub>C EO</sub>	I <sub>C</sub> = 2 mA, I <sub>B</sub> = 0	50			V
Emitter-base voltage	V <sub>EBO</sub>	I <sub>E</sub> = 10 μA, I <sub>C</sub> = 0	7			V
Collector-base current	I <sub>CBO</sub>	V <sub>CB</sub> = 20 V, I <sub>E</sub> = 0 A			0.1	μA
Collector-emitter current	I <sub>CEO</sub>	V <sub>CE</sub> = 10 V, I <sub>B</sub> = 0 A			100	μA
Forward current transfer ratio	h <sub>FE</sub>	V <sub>CE</sub> = 10 V, I <sub>C</sub> = 2 mA	160	460		
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = 100 mA, I <sub>B</sub> = 10 mA		0.1	0.3	V
Transition frequency	f <sub>T</sub>	V <sub>CB</sub> = 10 V, I <sub>E</sub> = -2 mA, f = 200 MHz		150		MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10V, I <sub>E</sub> = 0, f = 1.0MHz		3.5		pF
Noise voltage	NV	V <sub>CE</sub> = 10V, I <sub>C</sub> = 1mA, G <sub>V</sub> = 80dB R <sub>g</sub> = 100kW, Function = FLAT		110		mV

### ■ hFE Classification

Marking	ZQ	ZR	ZS
h <sub>FE</sub>	160~260	210~340	290~460