

2SC6036

Silicon NPN epitaxial planar type

For general amplification

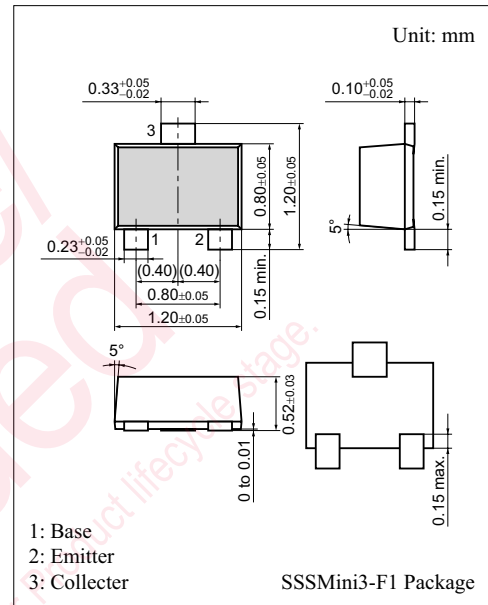
Complementary to 2SA2162

■ Features

- Low collector-emitter saturation voltage $V_{CE(sat)}$
- SSS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

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

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V_{CBO}	15	V
Collector-emitter voltage (Base open)	V_{CEO}	12	V
Emitter-base voltage (Collector open)	V_{EBO}	5	V
Collector current	I_C	500	mA
Peak collector current	I_{CP}	1	A
Collector power dissipation	P_C	100	mW
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

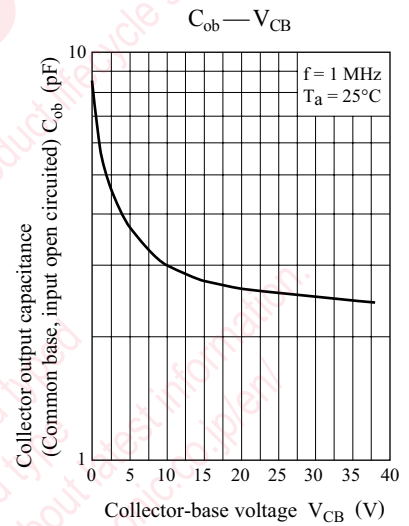
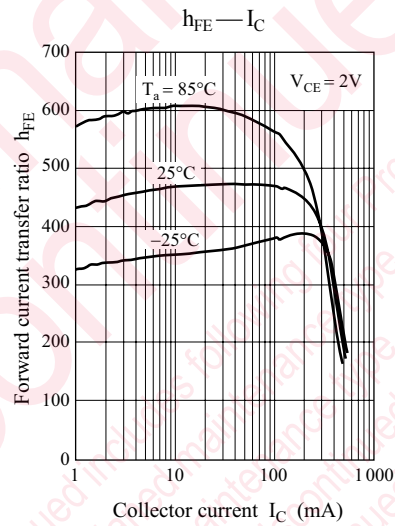
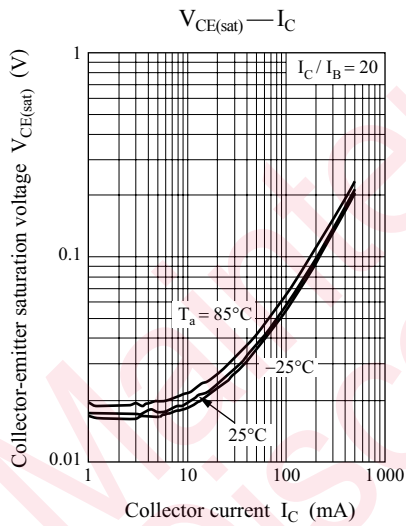
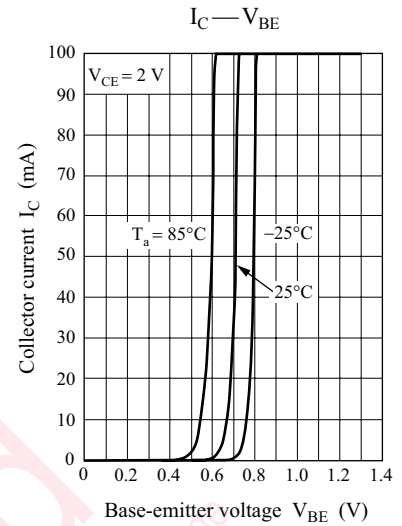
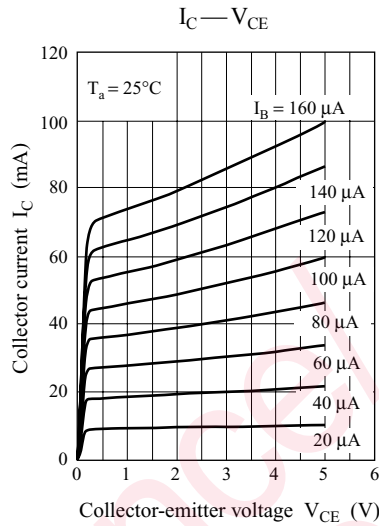
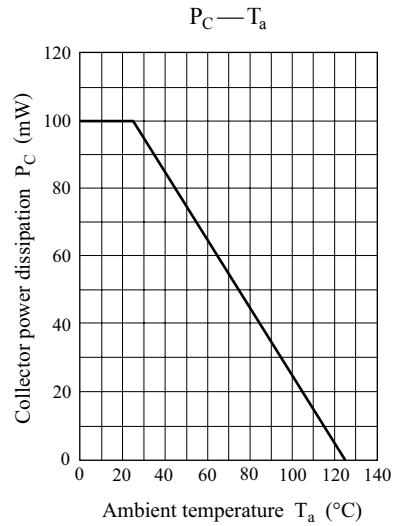


Marking Symbol : 4U

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = 10 \mu\text{A}$, $I_E = 0$	15			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_C = 1 \text{ mA}$, $I_B = 0$	12			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 10 \mu\text{A}$, $I_C = 0$	5			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = 10 \text{ V}$, $I_E = 0$			0.1	μA
Forward current transfer ratio	h_{FE}	$V_{CE} = 2 \text{ V}$, $I_C = 10 \text{ mA}$	270		680	—
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 200 \text{ mA}$, $I_B = 10 \text{ mA}$			250	mV
Transition frequency	f_T	$V_{CB} = 2 \text{ V}$, $I_E = -10 \text{ mA}$, $f = 200 \text{ MHz}$		200		MHz
Collector output capacitance (Common base, input open circuited)	C_{ob}	$V_{CB} = 10 \text{ V}$, $f = 1 \text{ MHz}$		4.5		pF

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



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