2SA2161G

Silicon PNP epitaxial planar type

For general amplification
Complementary to 2SC6037G

■ Features

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

■ Package

- Code
  SSMini3-F3
- Marking Symbol: 2U
- Pin Name
  1. Base
  2. Emitter
  3. Collector

■ Absolute Maximum Ratings $T_a = 25°C$

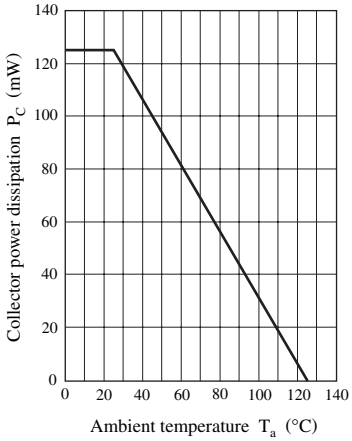
Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V_{CBO}	−15	V
Collector-emitter voltage (Base open)	V_{CEO}	−12	V
Emitter-base voltage (Collector open)	V_{EBO}	−5	V
Collector current	I_C	−500	mA
Peak collector current	I_{CP}	−1	A
Collector power dissipation	P_C	125	mW
Junction temperature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

■ Electrical Characteristics $T_a = 25°C \pm 3°C$

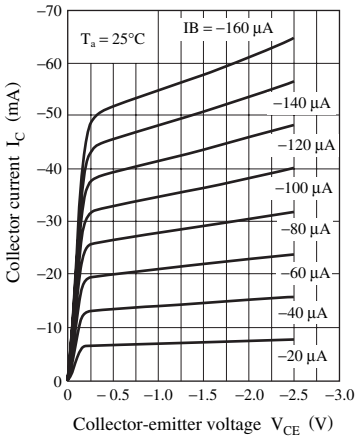
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = -10$ µA, $I_E = 0$	−15			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_C = -1$ mA, $I_B = 0$	−12			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = -10$ µA, $I_C = 0$	−5			V
Collector-base cutoff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

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

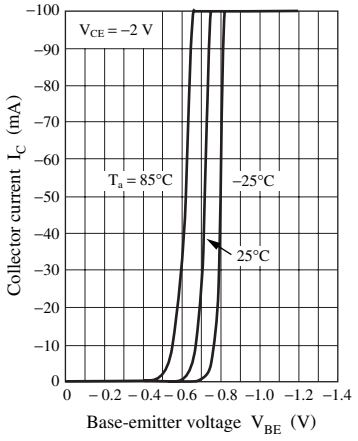
P_C — T_a



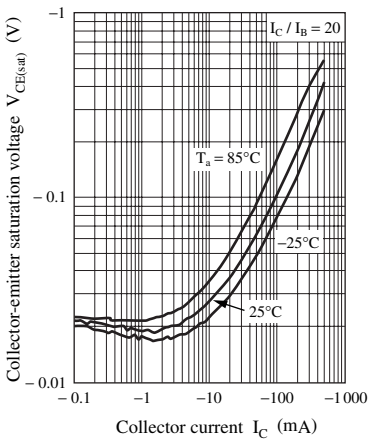
I_C — V_{CE}



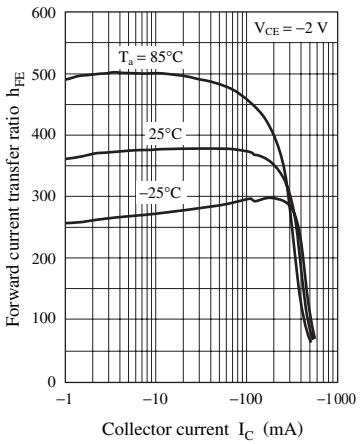
I_C — V_{BE}



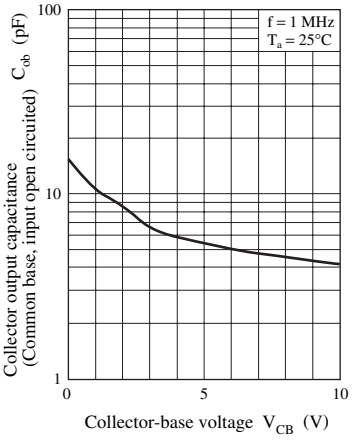
$V_{CE(sat)}$ — I_C



h_{FE} — I_C

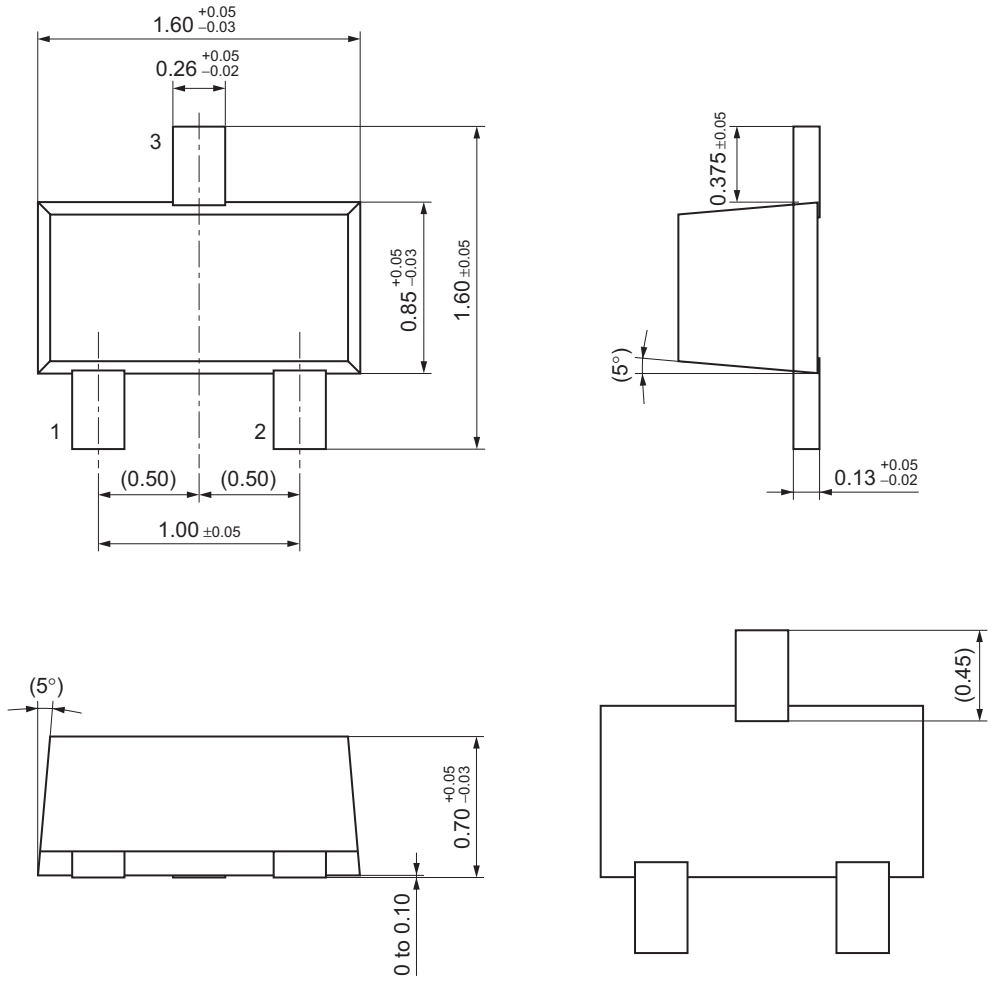


C_{ob} — V_{CB}



SSMini3-F3

Unit: mm



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