# 2SA2161J

### Silicon PNP epitaxial planar type

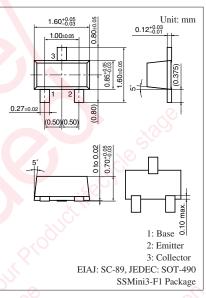
For general amplification Complementary to 2SC6037J

#### Features

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

Absolute Maximum matings $T_a = 23$ C							
Parameter	Symbol	Rating	Unit				
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	-15	V				
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	-12	V				
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	-5	V				
Collector current	I <sub>C</sub>	-500	mA				
Peak collector current	I <sub>CP</sub>	-1	А				
Collector power dissipation	P <sub>C</sub>	125	mW				
Junction temperature	Tj	125	°C				
Storage temperature	T <sub>stg</sub>	-55 to +125	°C				





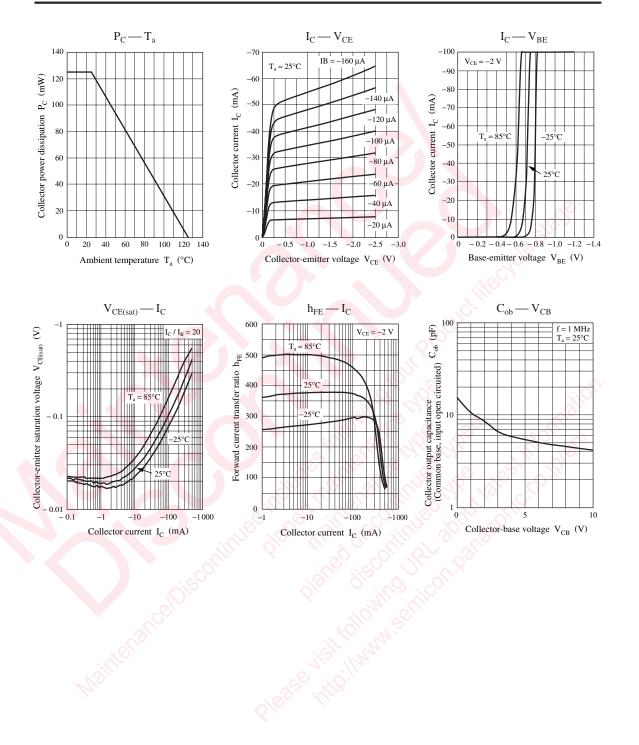
#### Marking Symbol: 2U

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	$I_{\rm C} = -10 \ \mu {\rm A}, \ I_{\rm E} = 0$	-15			V
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_{\rm C} = -1 \text{ mA}, I_{\rm B} = 0$	-12	3		V
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	$I_{\rm E} = -10 \ \mu A, I_{\rm C} = 0$	-5			V
Collector-base cutoff current (Emitter open)	I <sub>CBO</sub>	$V_{CB} = -15 \text{ V}, I_E = 0$	, N		- 0.1	μΑ
Forward current transfer ratio	h <sub>FE</sub>	$V_{CE} = -2 V, I_C = -10 mA$	270		680	_
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	$I_{\rm C} = -200 \text{ mA}, I_{\rm B} = -10 \text{ mA}$			-250	mV
Transition frequency	f <sub>T</sub>	$V_{CB} = -2 \text{ V}, I_E = 10 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		4.5		pF
(Common base, input open circuited)		ALL SIL				

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

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